Technical Note

1976-34

R. A. Ross
G. N. Cohen

Circular Polarization Scattering Coefficients for the Bistatic Scattering of Electromagnetic Waves from Perfectly Conducting Spheres

27 July 1976

Prepared for the Department of the Air Force
under Electronic Systems Division Contract F19628-76-C-0002 by

Lincoln Laboratory
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
LEXINGTON, MASSACHUSETTS

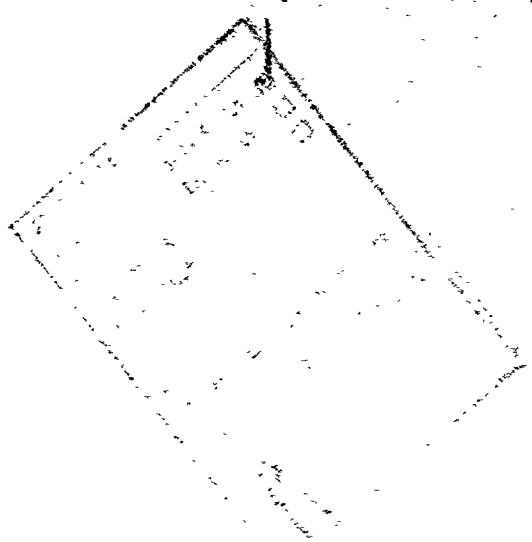
The work reported in this document was performed at Lincoln Laboratory, a center for research operated by Massachusetts Institute of Technology, with the support of the Department of the Air Force under Contract F19628-76-C-0002.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER

Raymond L. Loiselle

Raymond L. Loiselle, Lt. Col., USAF
Chief, ESD Lincoln Laboratory Project Office

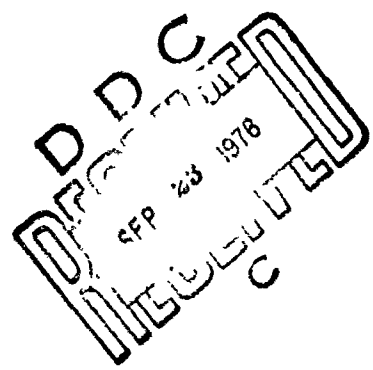


MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LINCOLN LABORATORY

CIRCULAR POLARIZATION SCATTERING COEFFICIENTS FOR THE BISTATIC SCATTERING OF ELECTROMAGNETIC WAVES FROM PERFECTLY CONDUCTING SPHERES

R. A. ROSS
G. N. COHEN
Group 95



TECHNICAL NOTE 1976-34

27 JULY 1976

LEXINGTON MASSACHUSETTS

ABSTRACT

The scattering by a number of perfectly conducting spheres has been calculated as a function of bistatic angle for both principal circular polarizations. Normalized radar cross section and scattering phase are tabulated for body circumference in wavelengths equal to 1.0(1.0)10.0, 15.0(5.0)50.0 with bistatic angles 0.0(1.0)180.0 degrees. Selected graphs precede the tables.

CONTENTS

I. INTRODUCTION

The most important of the bodies for which exact solutions are possible is the sphere. Calculations via the exact solution for scattering by perfectly conducting spheres are of great importance, both as a means of calibrating cross-section ranges and as a means of checking approximate methods of computation.

In the monostatic case, the two most complete tables of scattering coefficients for perfectly conducting spheres are those of Bechtel[1], whose tables cover the range ka=0.2(0.02)50*, where ka is sphere circumference in wavelengths, and those of Rheinstein[2], whose tables cover the range $a/\lambda = 0.01(.01)19.00$, where a is the sphere radius and λ is the wavelength. Both these tables give the amplitude and phase of the scattered field as well as the radar cross-section; they differ in that Rheinstein has referenced his phase value to the sphere's center, while Bechtel's results yield phase referenced to the specular point. Tables which are more limited than the two mentioned above have been published by Goodrich, et al.[3], by Crispin and Siegel[4], and by Alder and Johnson[5], the latter tables giving monostatic cross-sections of a variety of dielectric spheres as well as of perfectly conducting ones.

In the bistatic case, tables of scattering coefficients giving the amplitude and phase of the electromagnetic wave scattered by a perfectly conducting sphere have been published for principal linear polarization combinations. Despite a very limited range of sphere sizes and bistatic angles, the early data of Proudman, Doodson, and Kennedy[6] are quite remarkable in view of the procedure for computation. In reference 7 tables are given of normalized echoing area and phase angle for sphere circumference ka = 0.25(0.25)16.00 with bistatic angles = $0^{\circ}(30.0)180^{\circ}$. Those tables were based upon computations made at the Cornell Aeronautical Laboratory. Attendant with scattering studies conducted at the University of Manitoba, tables[8] were compiled for a wide range of sphere sizes and bistatic angles. Normalized radar cross-section and scattering phase are presented for both principal linear polarizations for ka = 1.0(1.0)10.0, 15.0(5.0)50.0 with bistatic angles = $0.0(1.0)180.0^{\circ}$. Graphs showing the bistatic dependence of normalized radar cross-section and scattering phase for ka = 1.0(1.0)10.0 precede the tables.

*The code to this convention is: initial value (increment) final value.

Interest has been generated in scattering behavior when antennas are circularly polarized. In the monostatic case of sphere scattering, the parallel circular polarization result is unchanged from the linear polarization result, and the opposite circular polarization return is identically zero [see Equations (1) and (2)]. The existing tables of reference 1 or 2 are appropriate for the non-trivial situation. In the bistatic case of sphere scattering, circular polarization data are completely defined by simple combinations of linear polarization data, and the calculations contained in reference 8 would apply. However, hand calculations combining phasors can be tedious, so the present table is offered.

Principal circular polarization data (normalized radar cross-section and scattering phase) were computed for ka = 1.0(1.0)10.0, 15.0(5.0)50.0 with bistatic angles $0.0(1.0)180.0^{\circ}$. Graphs showing the bistatic dependence of parallel and opposite circular RCS and phase for ka = 1.0(1.0)10.0, 15.0, and 20.0 precede the tables.

This report is intended to serve as a companion report to references 1 and 8. For this reason, we limit further discussion to those topics necessary in the use of the data presented.

II. NOTATION AND FORMULATION

Computations are based upon Stratton's[9] formulation (modified for $e^{i\omega t}$ time dependence) with spherical Bessel functions expressed in finite-series representation. Reference 1 contains the details of the formulation for the interested reader.

An incident, monochromatic, plane wave having number k ($= \frac{2\pi}{\lambda}$ where λ is the wavelength) has been assigned the common $e^{i\omega t}$ time dependence. Real (REAL) and imaginary (IMAG) parts of the scattering coefficients were computed for E-plane and H-plane (principal linear polarization) configurations* as a function of bistatic angle.

---

*Since this polarization convention is uniformly accepted, we do not elaborate further (e.g., see the Appendix of Reference 10).

We seek the related quantities for the two circular polarization combinations (I and OP) originating in the sense of these EM waves. By convention, PP or princ: circular polarization obtains when transmitting and receiving antennas are circularly polarized with differing sense of rotation; OP or opposite circular polarization corresponds with circular antennas having the same sense. The equations which join circular and linear polarization scattering coefficients can be shown to be

$$\text{REAL}\begin{matrix}\text{PP}\\\text{OP}\end{matrix} = \frac{\text{REAL (H)} \pm \text{REAL (E)}}{2} \qquad (1)$$

$$\text{IMAG}\begin{matrix}\text{PP}\\\text{OP}\end{matrix} = \frac{\text{IMAG (H)} \pm \text{IMAG (E)}}{2} \qquad (2)$$

For comparison purposes, note that the phase of the scattered field defined by equations (1) and (2) was referenced to the center of the perfectly conducting sphere.

III. USE OF TABLES AND GRAPHS

The tables present bistatic scattering data according to polarization pairs (circular PP and circular OP, respectively) in increasing order of integra value of ka.

Beneath a major heading specifying polarization and ka lies a table consisting of five columns. The first column on the left contains the bistatic angle THETA in degrees: monostatic scattering or backscattering corresponds with THETA = 0°; forward scattering corresponds with THETA = 180°. The fifth column lists radar cross-section (σ) normalized to its geometric optics value; i

$$\text{NRCS} = \frac{\sigma}{\pi a^2} \qquad (3)$$

The fourth column gives the phase (PHASE) of the scattered field in degrees, modulus 360^{o} and lying in the interval -180^{o} to $+180^{o}$. Columns two and three present the real (REAL) and imaginary (IMAG) parts of the circular polarization scattering coefficients given by equations (1) and (2), where

$$\text{NRCS} = |\text{REAL} + i\ \text{IMAG}|^2 \tag{4}$$

$$\text{PHASE} = \tan^{-1}\left(\frac{\text{IMAG}}{\text{REAL}}\right) \tag{5}$$

and the sphere center is the phase reference.

The only errors incurred in evaluating the scattering coefficients result from roundoff and from truncation of the infinite series representation of spherical Bessel functions. An IBM 370/168 digital computer was programmed to generate scattering-coefficient data which are accurate to six significant figures.

Graphs preceding the tables permit a rapid assessment of the bistatic dependence of normalized radar cross-section and scattering phase over the range ka = 1.0(1.0)10.0, 15.0, and 20.0 (see Figs. 1 through 24).

REFERENCES

1. M. E. Bechtel, "Scattering Coefficients for the Backscattering of Electromagnetic Waves from Perfectly Conducting Spheres," Cornell Aeronautical Laboratory Report No. AP/RIS-1 (December 1962).

2. J. Rheinstein, "Tables of the Amplitude and Phase of the Backscatter from a Conducting Sphere," Group Report 22G-16, Lincoln Laboratory, M.I.T. (19 June 1963), DDC AD-409820.

3. R. F. Goodrich, B. A. Harrison, R. E. Kleiman and T. B. A. Senior, "Studies in Radar Cross Sections XLVII - Diffraction and Scattering by Regular Bodies-I: The Sphere," University of Michigan Report No. 3648-I-T on Contract No. AF 19(604)-6855 (December 1961).

4. J. W. Crispin, Jr. and K. M. Siegel, Methods of Radar Cross Section Analysis (Academic Press, New York, 1968).

5. S. B. Adler and R. S. Johnson, "New Backscattering Computations and Tables for Dielectric and Metal Spheres," Appl. Opt. 1, 655 (1962).

6. A. J. Proudman, A. T. Doodson and G. Kennedy, "Numerical Results of the Theory of the Diffraction of a Plane Electromagnetic Wave by a Perfectly Conducting Sphere," Phil. Trans. Roy. Soc. 217, 279 (1917).

7. E. M. Kennaugh, "The Scattering of Transient Electromagnetic Waves by Finite Bodies," Final Engineering Report AFCRL 193, Report 1073-4, Ohio State University (January 1961).

8. R. A. Ross and P. Bhartia, "Scattering Coefficients for the Bistatic Scattering of Electromagnetic Waves from Perfectly Conducting Spheres," Technical Report No. 69-TR-1, University of Manitoba (February 1969).

9. J. A. Stratton, Electromagnetic Theory (McGraw-Hill, New York, 1941).

10. R. W. P. King and T. T. Wu, The Scattering and Diffraction of Waves (Harvard University Press, Cambridge, Massachusetts, 1959).

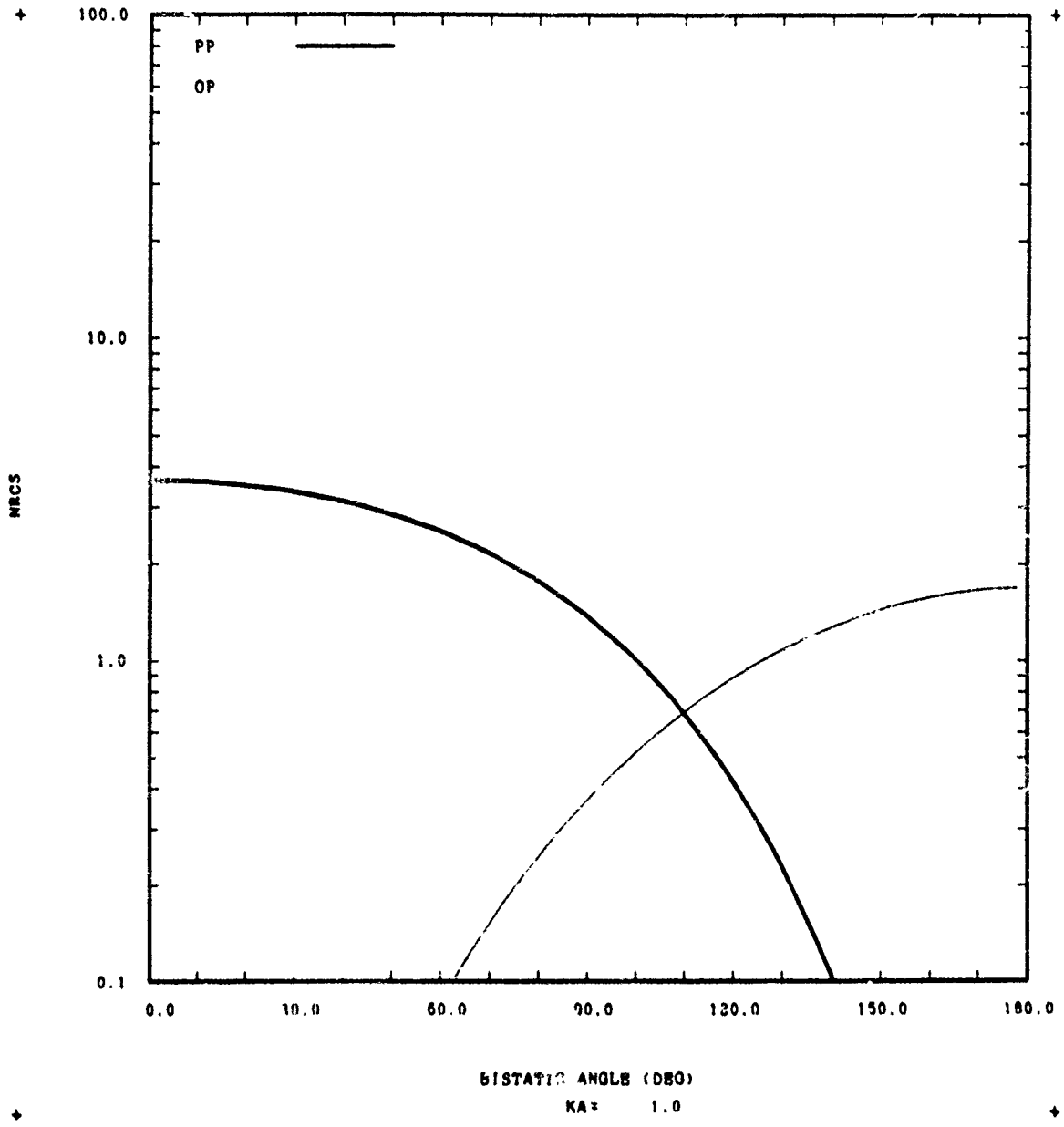


Fig. 1. Normalized radar cross-section vs. bistatic angle.

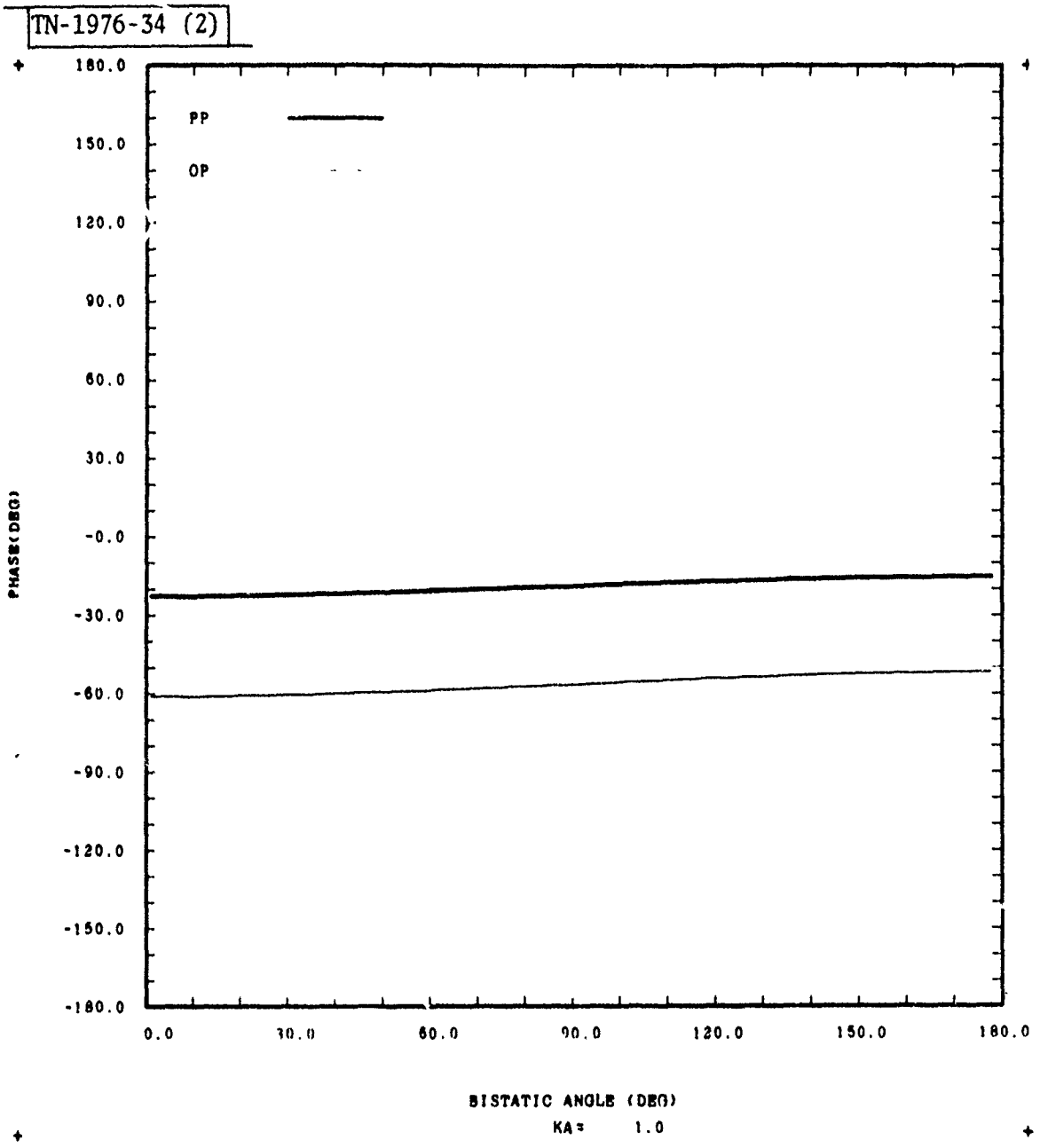


Fig. 2. Phase vs. bistatic angle.

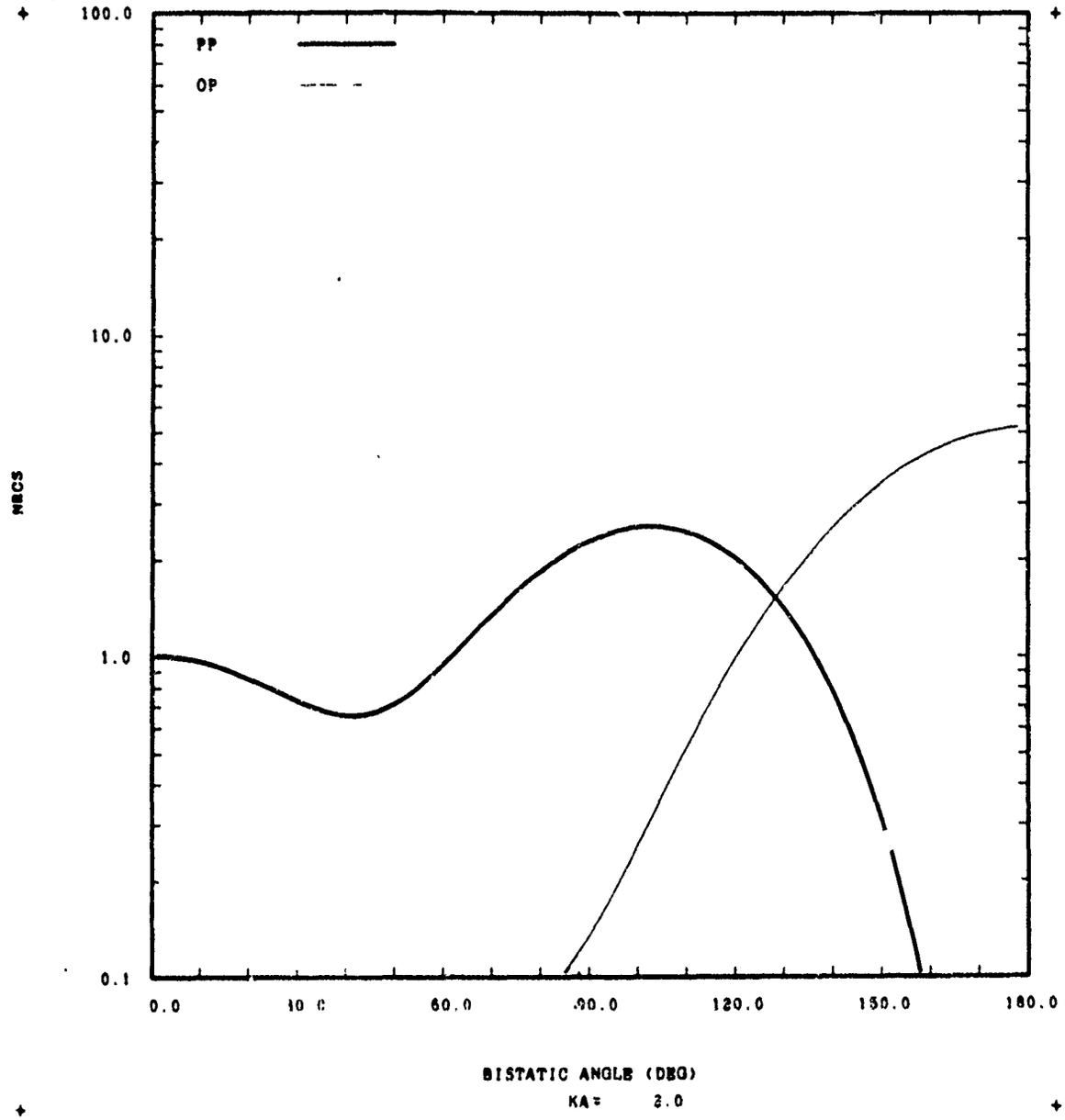


Fig. 3. Normalized radar cross-section vs. bistatic angle.

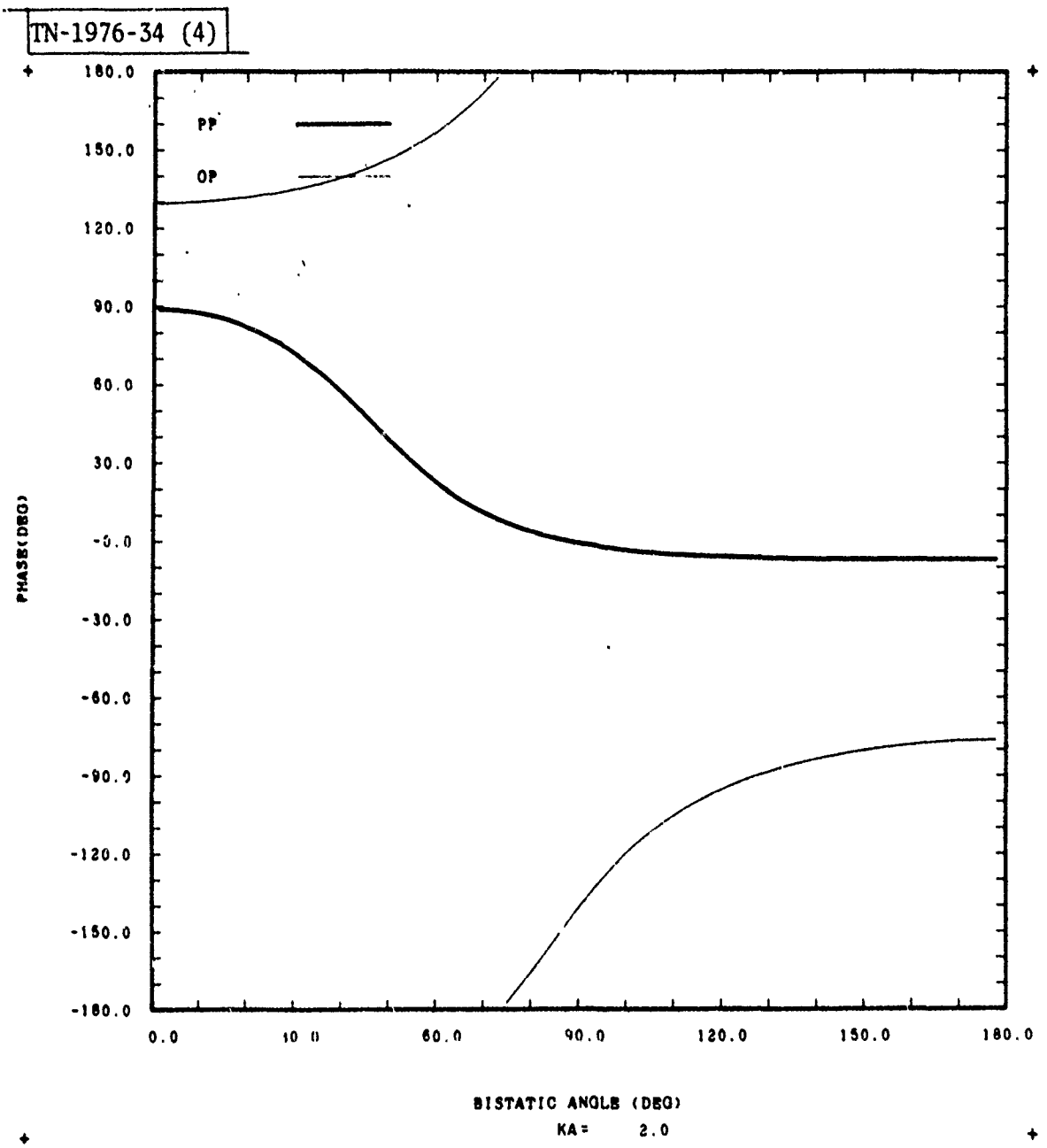


Fig. 4. Phase vs. bistatic angle.

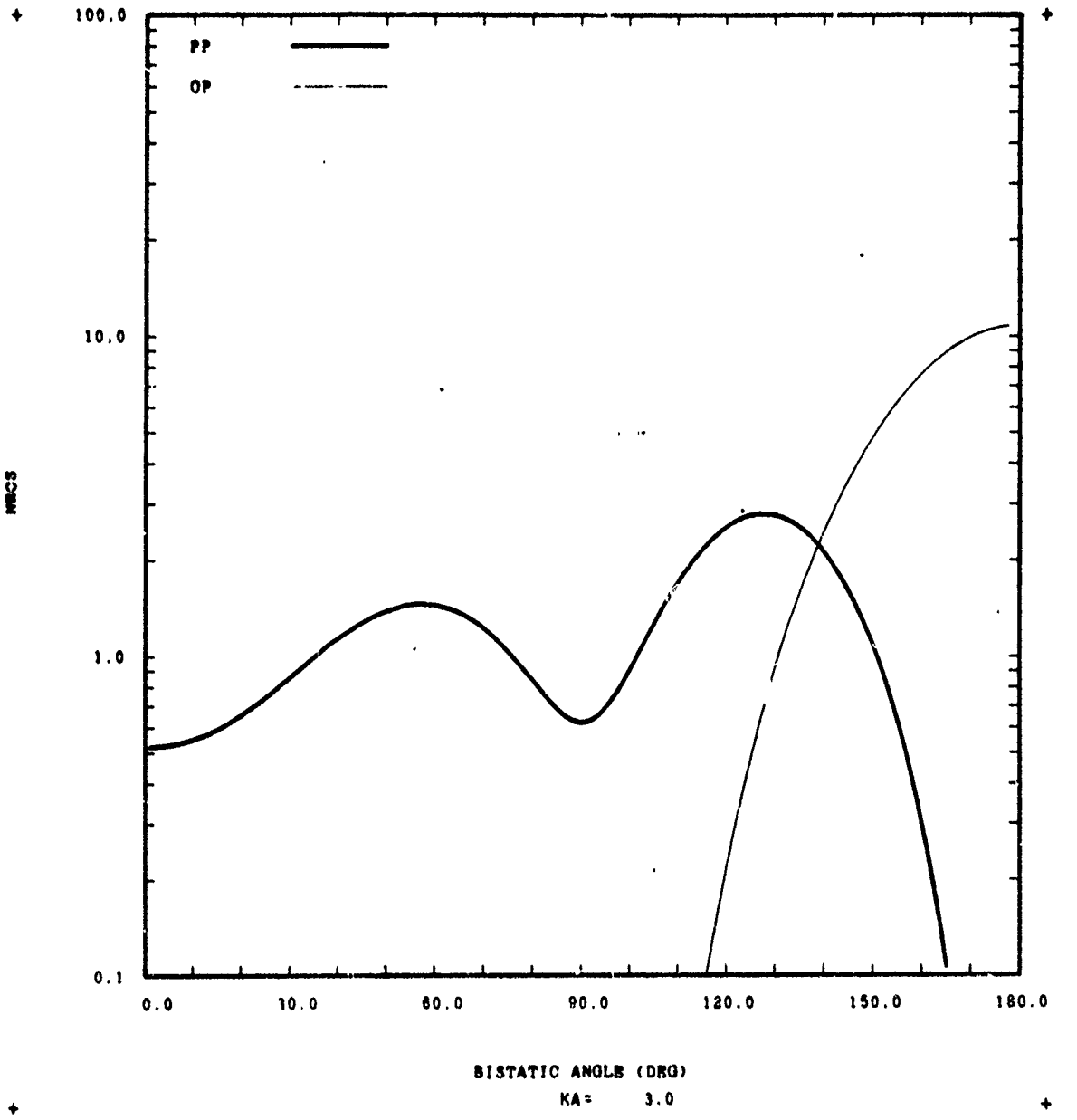


Fig. 5. Normalized radar cross-section vs. bistatic angle.

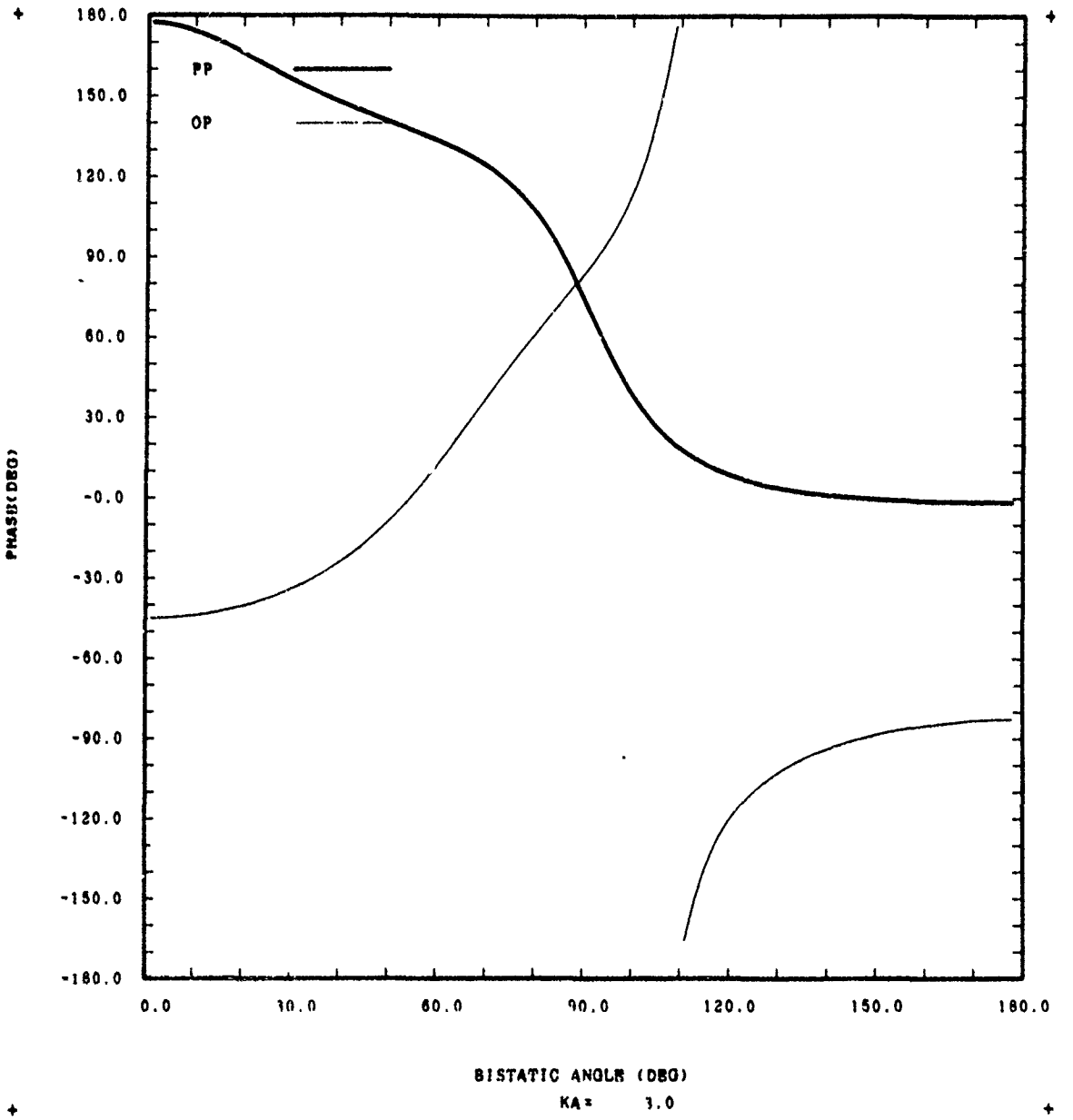


Fig. 6. Phase vs. bistatic angle.

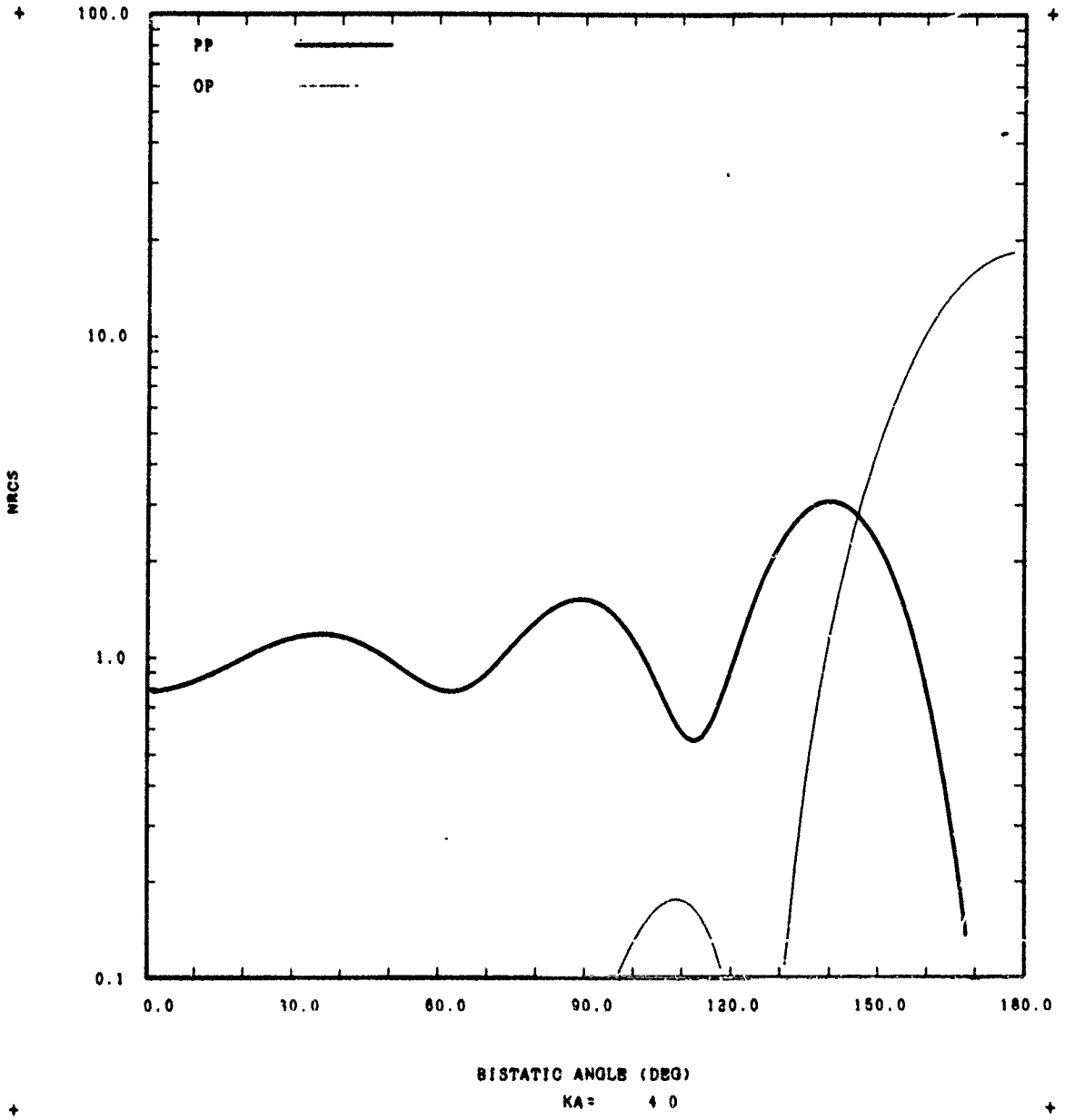


Fig. 7. Normalized radar cross-section vs. bistatic angle.

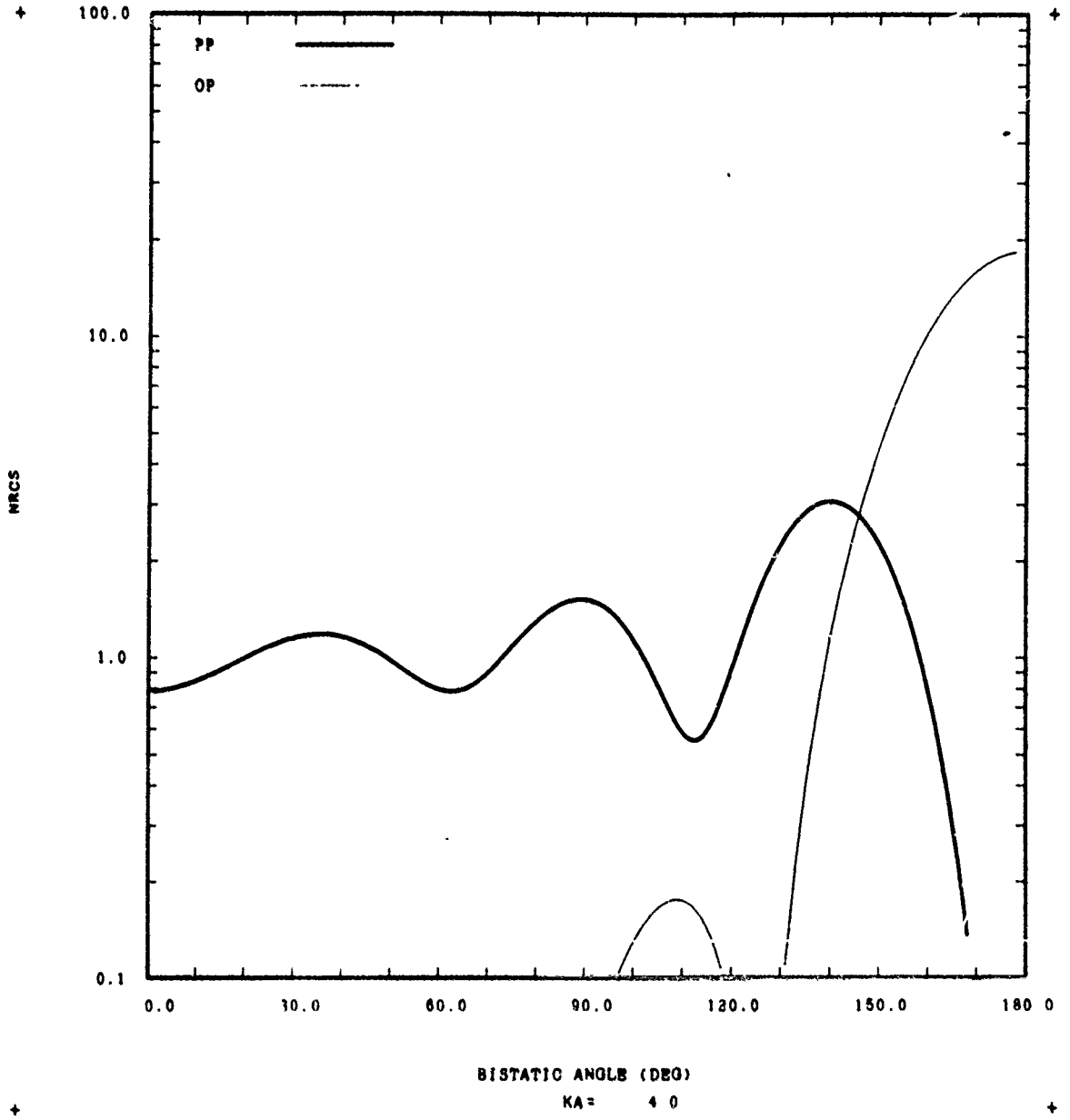


Fig. 7. Normalized radar cross-section vs. bistatic angle.

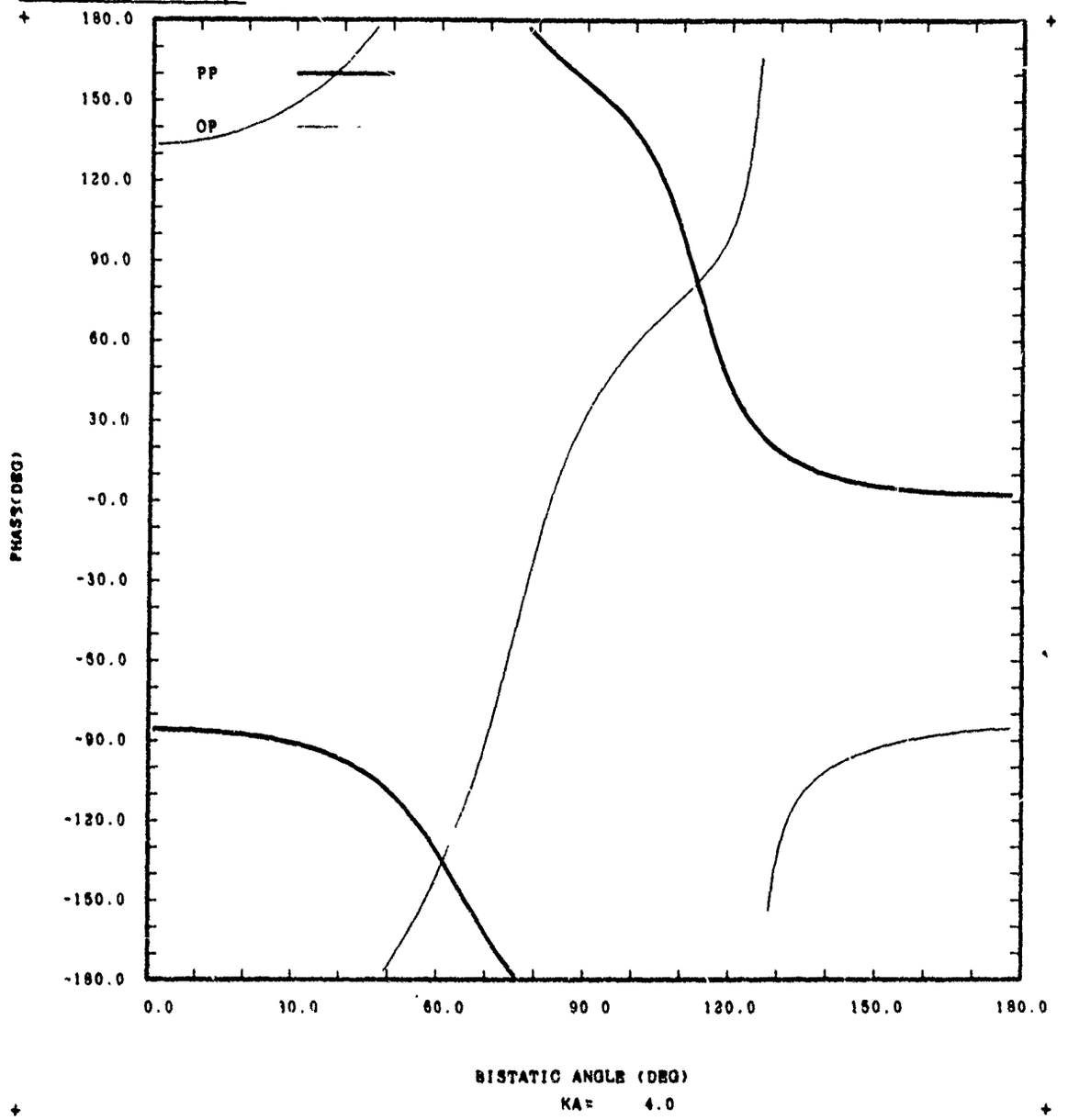


Fig. 8. Phase vs. bistatic angle.

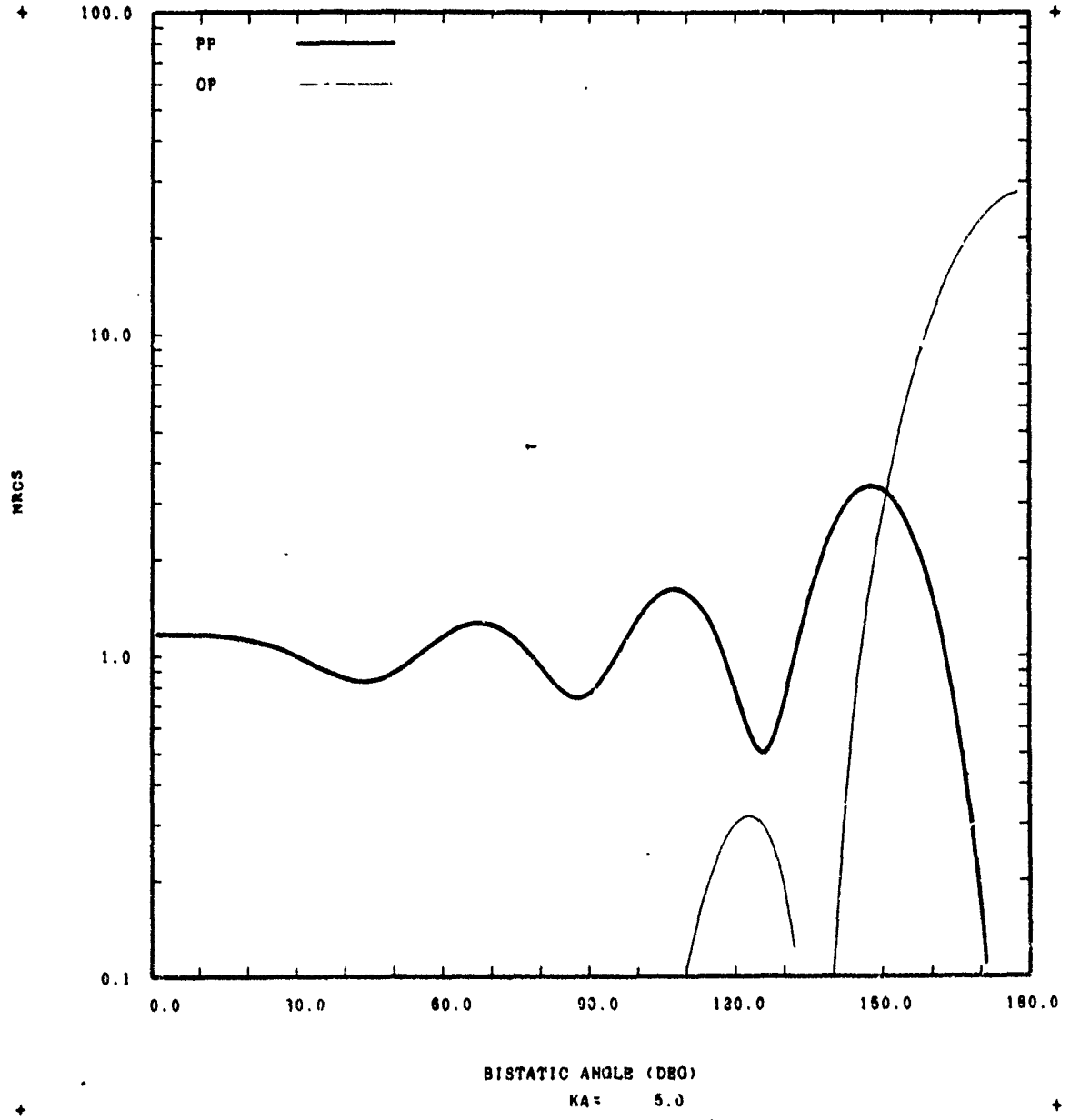


Fig. 9. Normalized radar cross-section vs. bistatic angle.

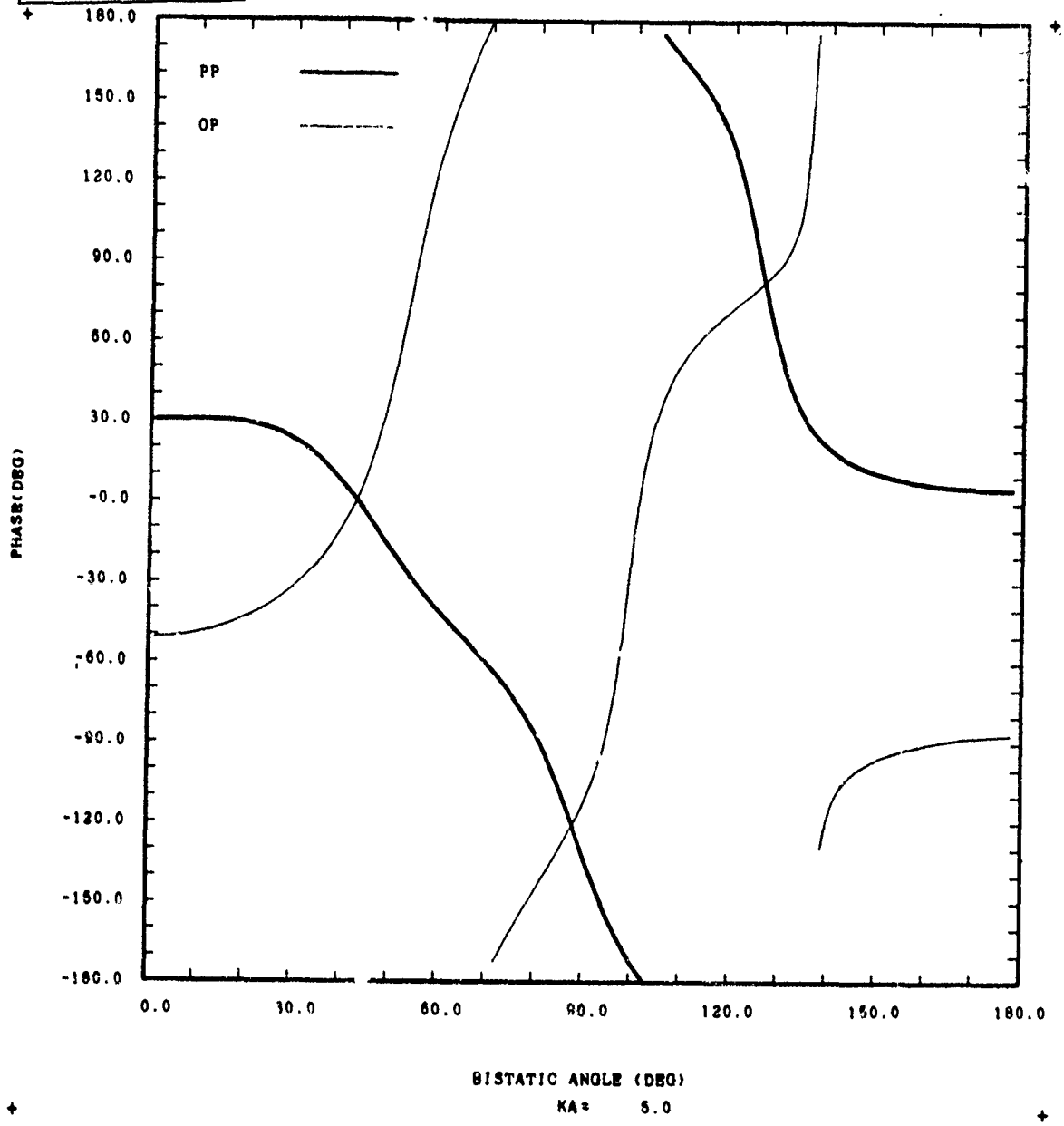


Fig. 10. Phase vs. bistatic angle.

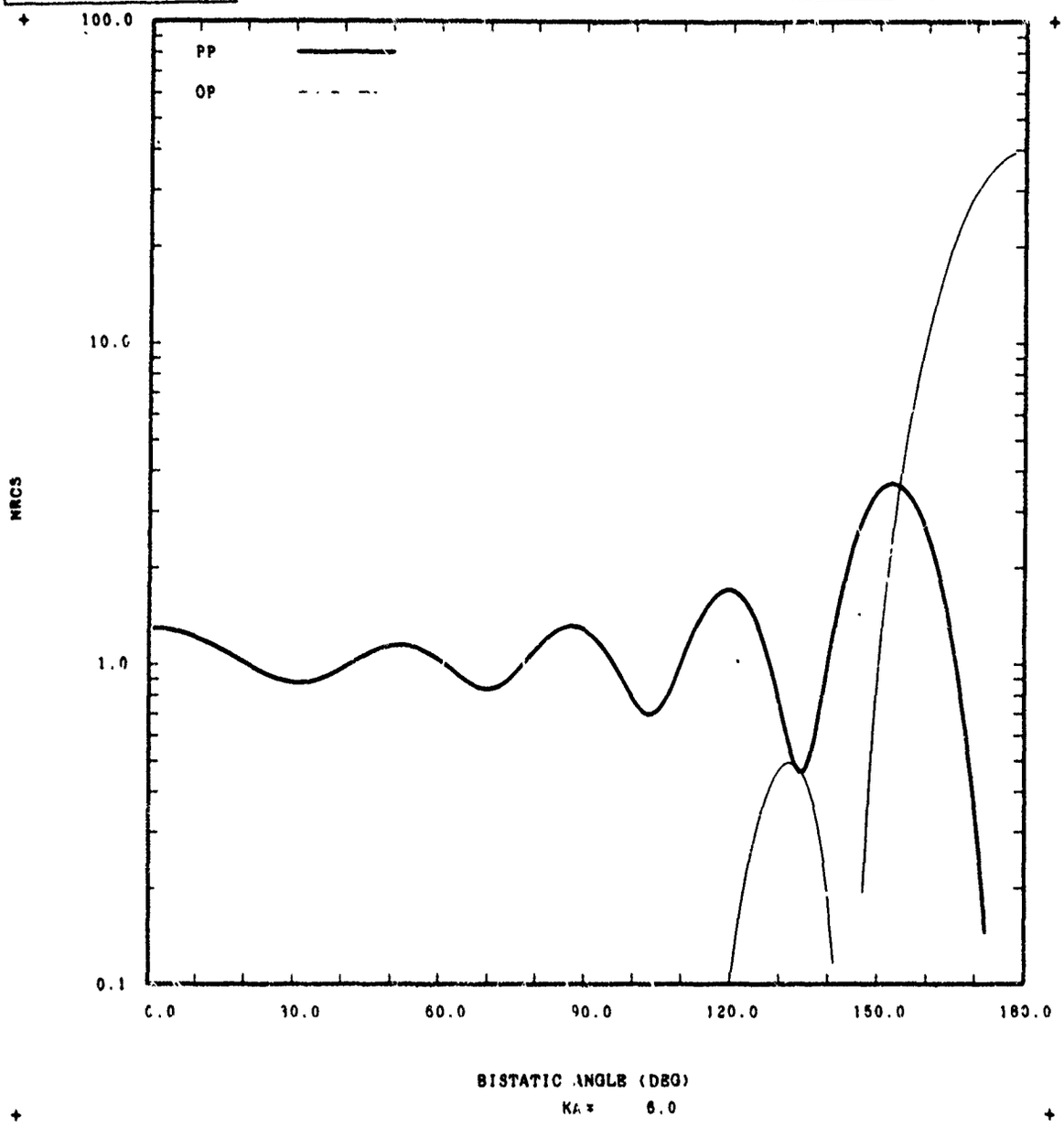


Fig. 11. Normalized radar cross-section vs. bistatic angle.

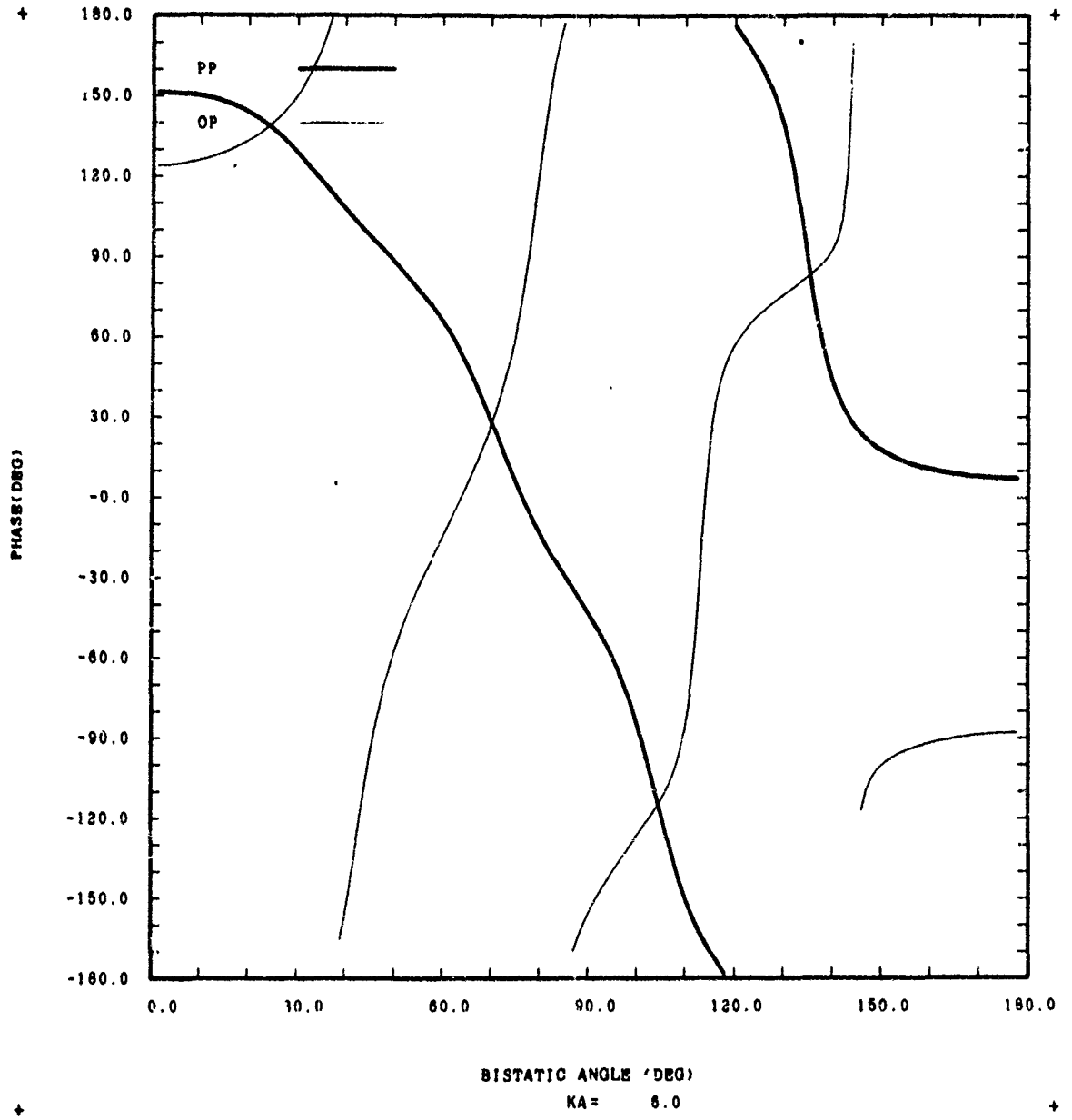


Fig. 12. Phase vs. bistatic angle.

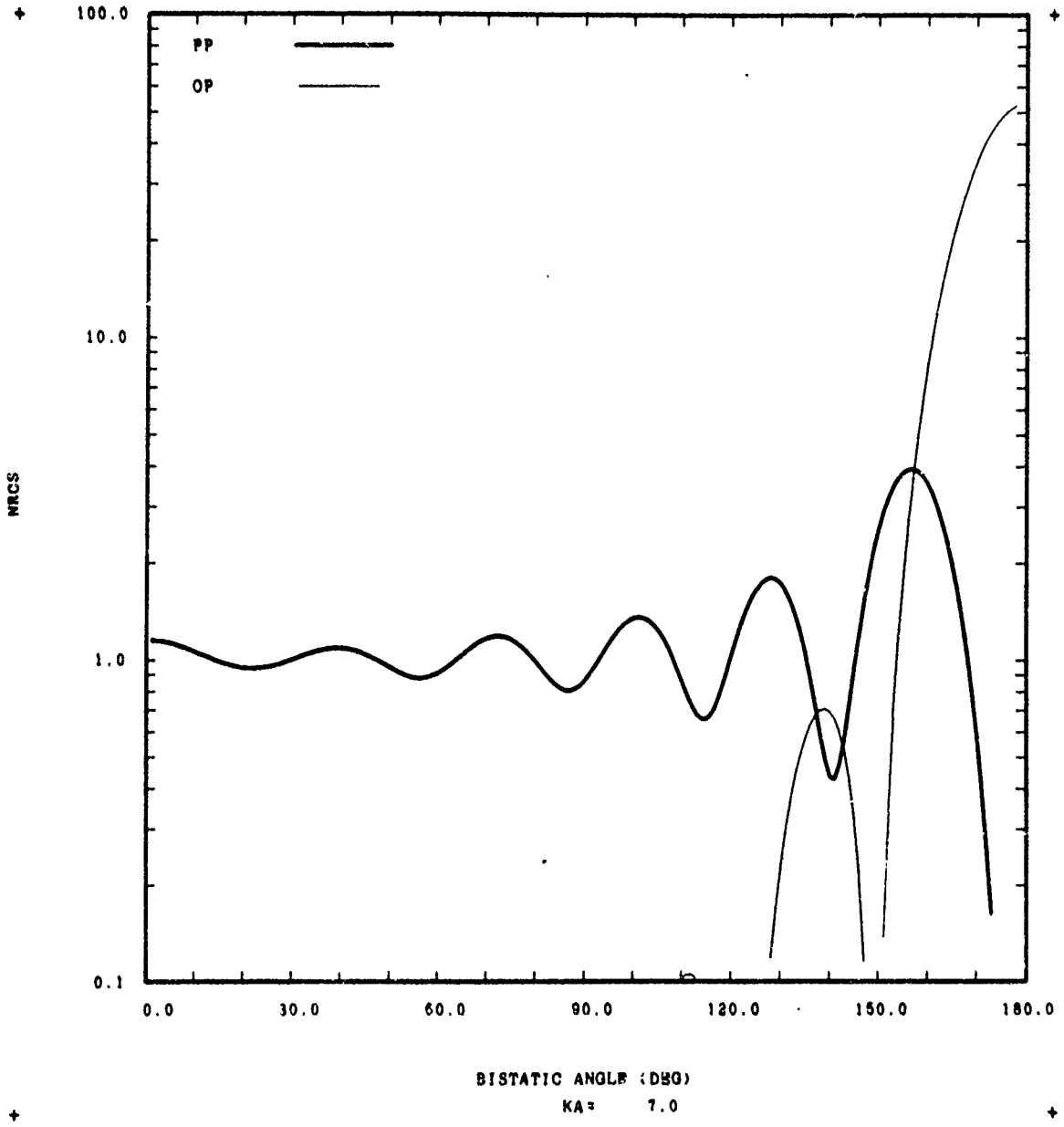


Fig. 13. Normalized radar cross-section vs. bistatic angle.

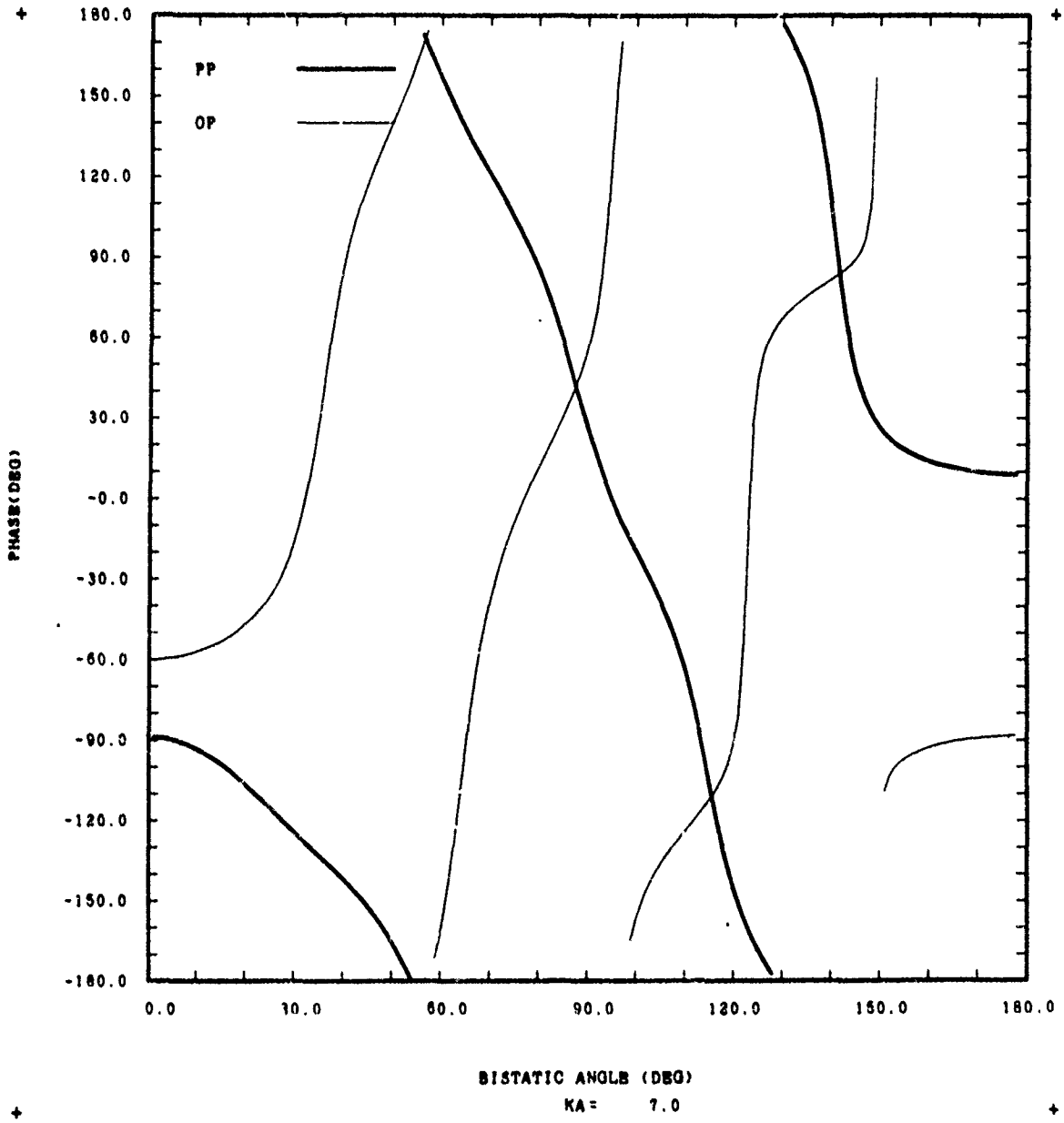


Fig. 14. Phase vs. bistatic angle.

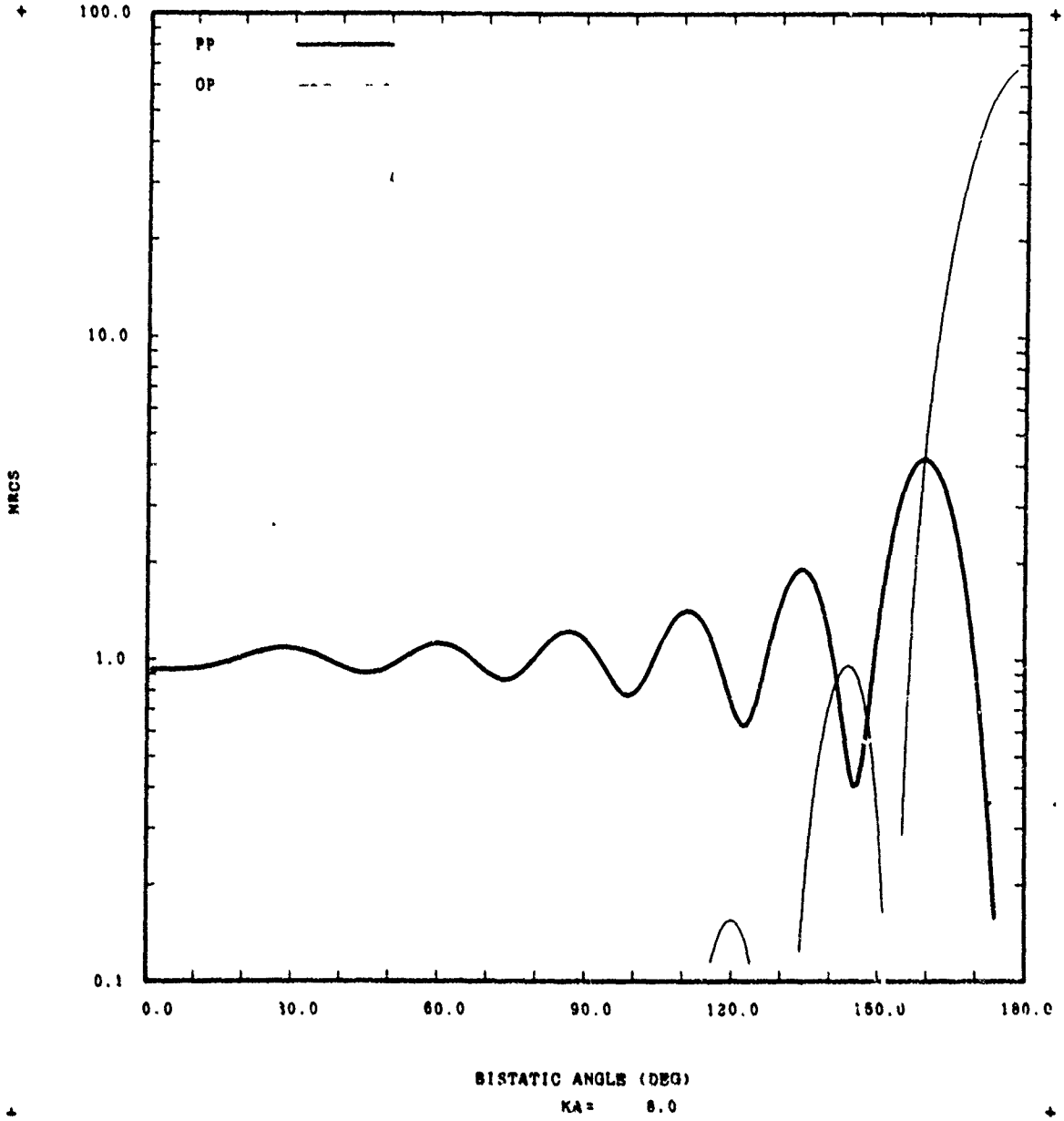


Fig. 15. Normalized radar cross-section vs. bistatic angle.

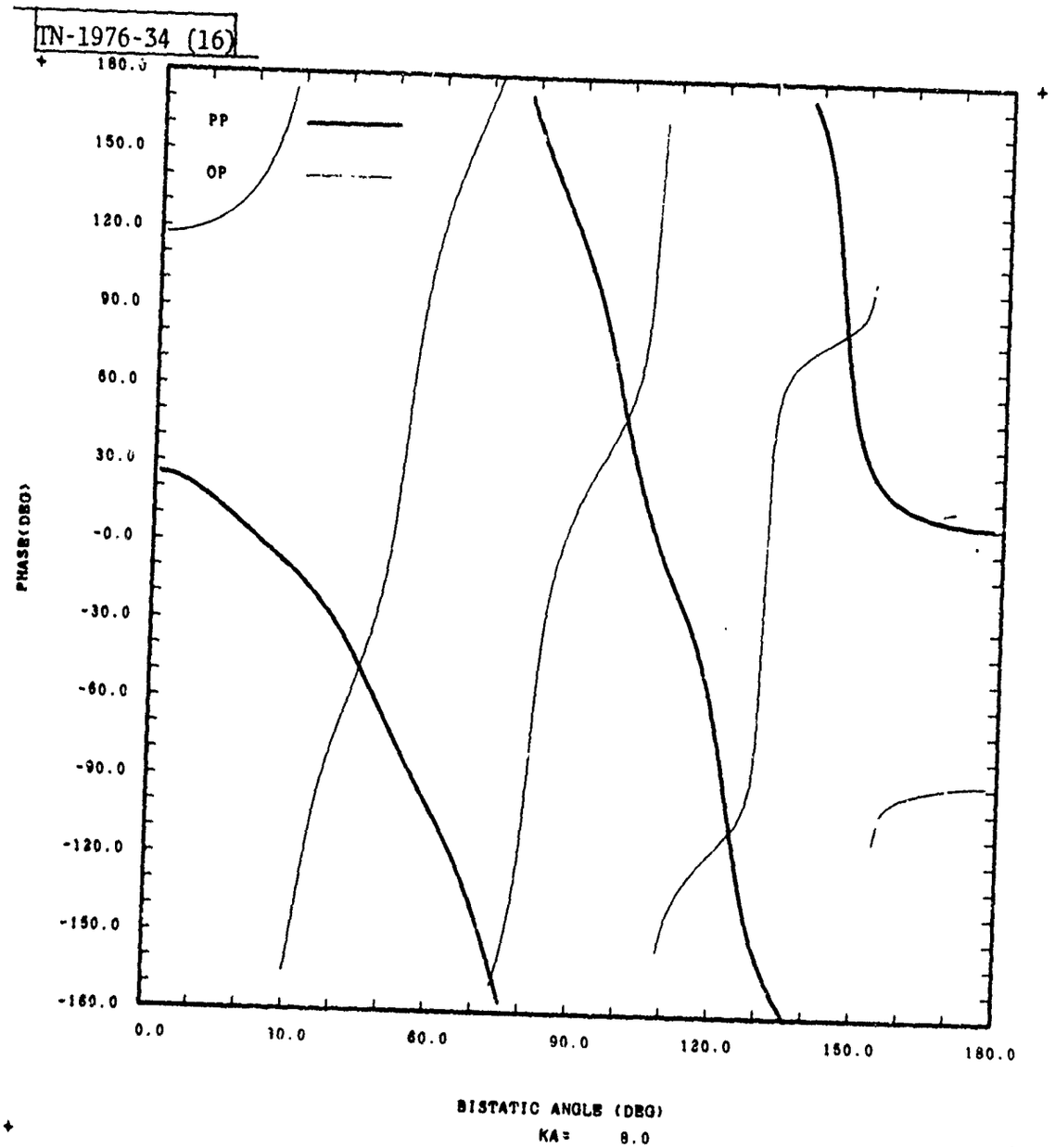


Fig. 16. Phase vs. bistatic angle.

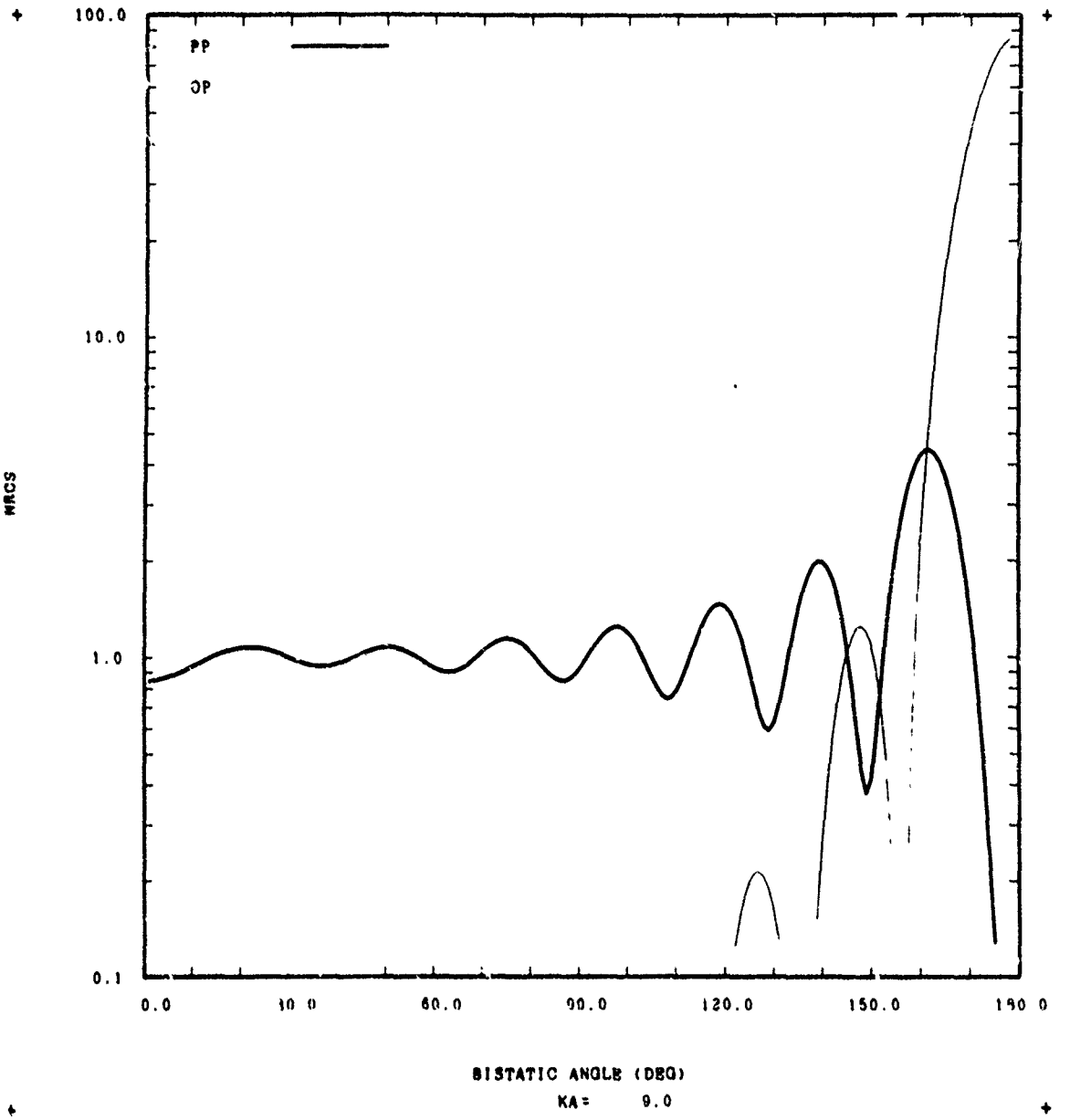


Fig. 17. Normalized radar cross-section vs. bistatic angle.

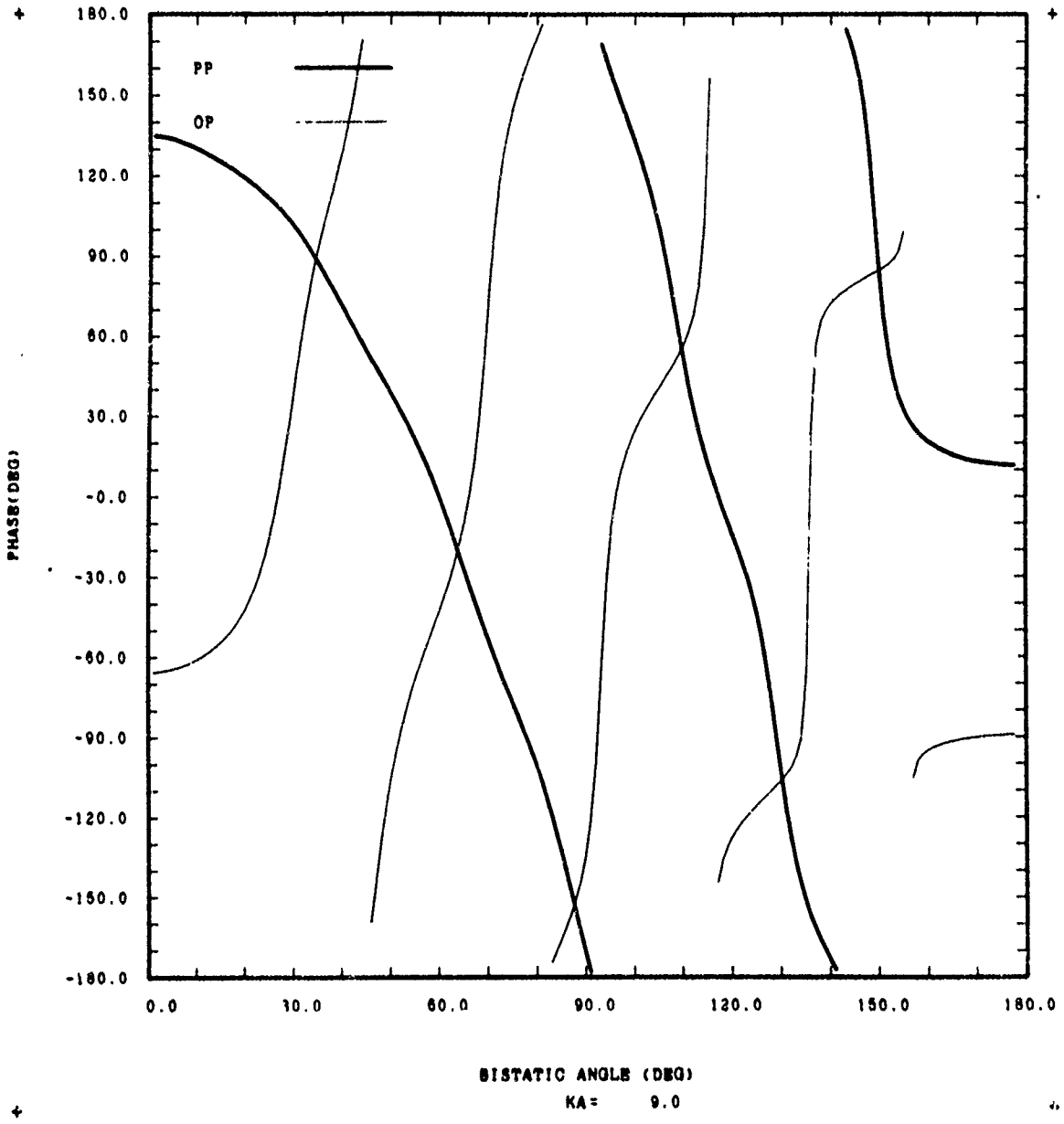


Fig. 18. Phase vs. bistatic angle.

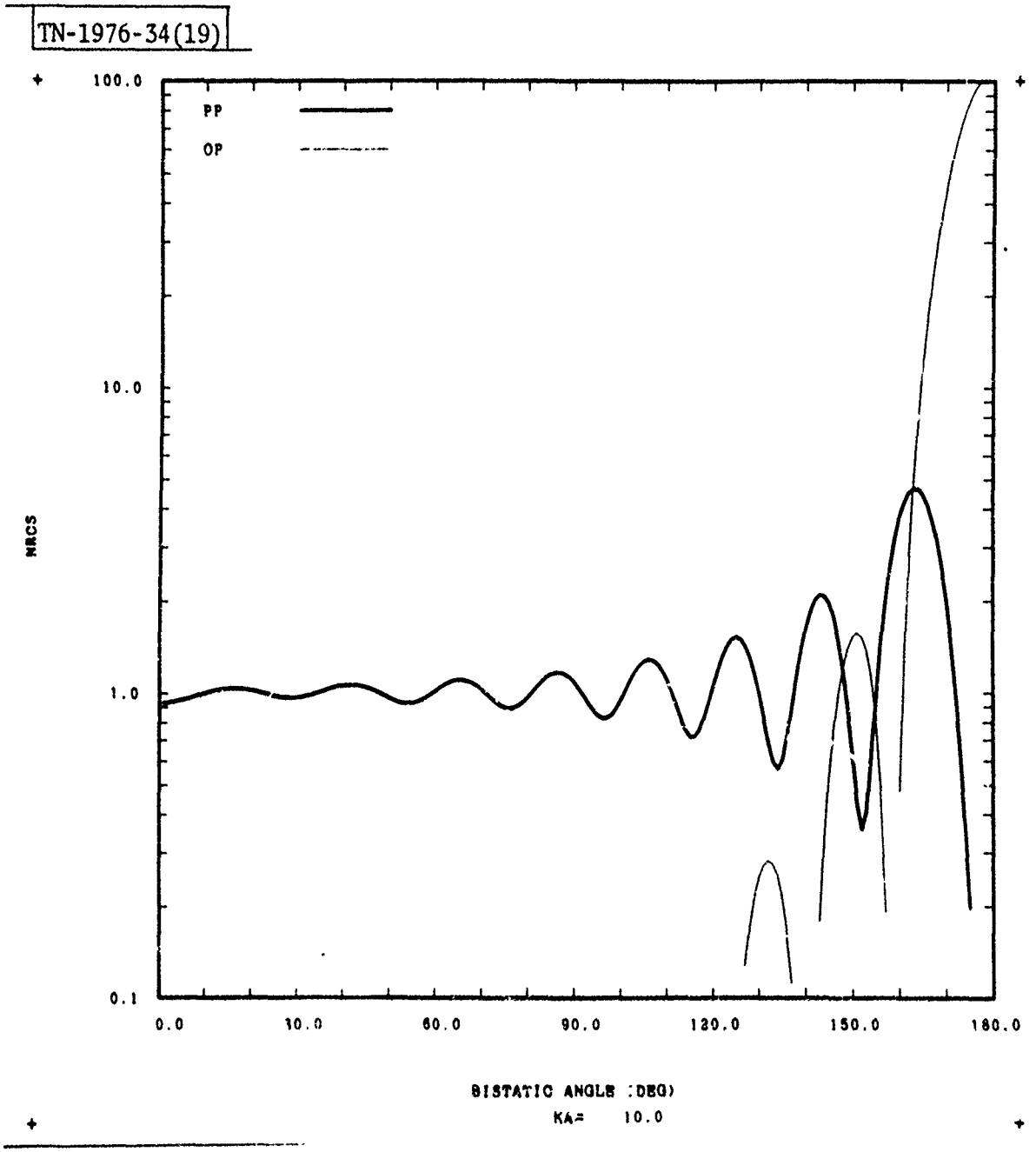


Fig. 19. Normalized radar cross-section vs. bistatic angle.

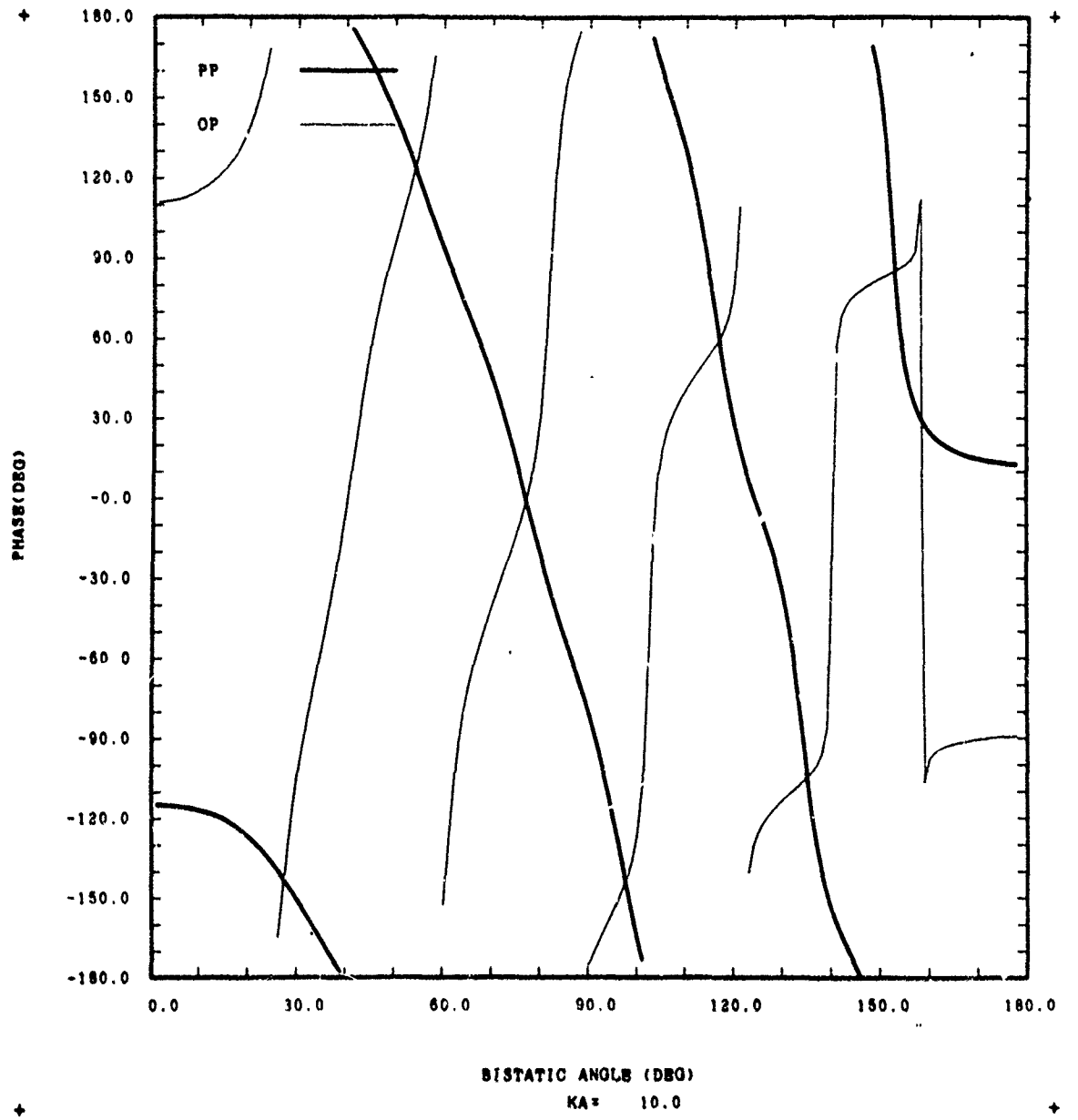


Fig. 20. Phase vs. bistatic angle.

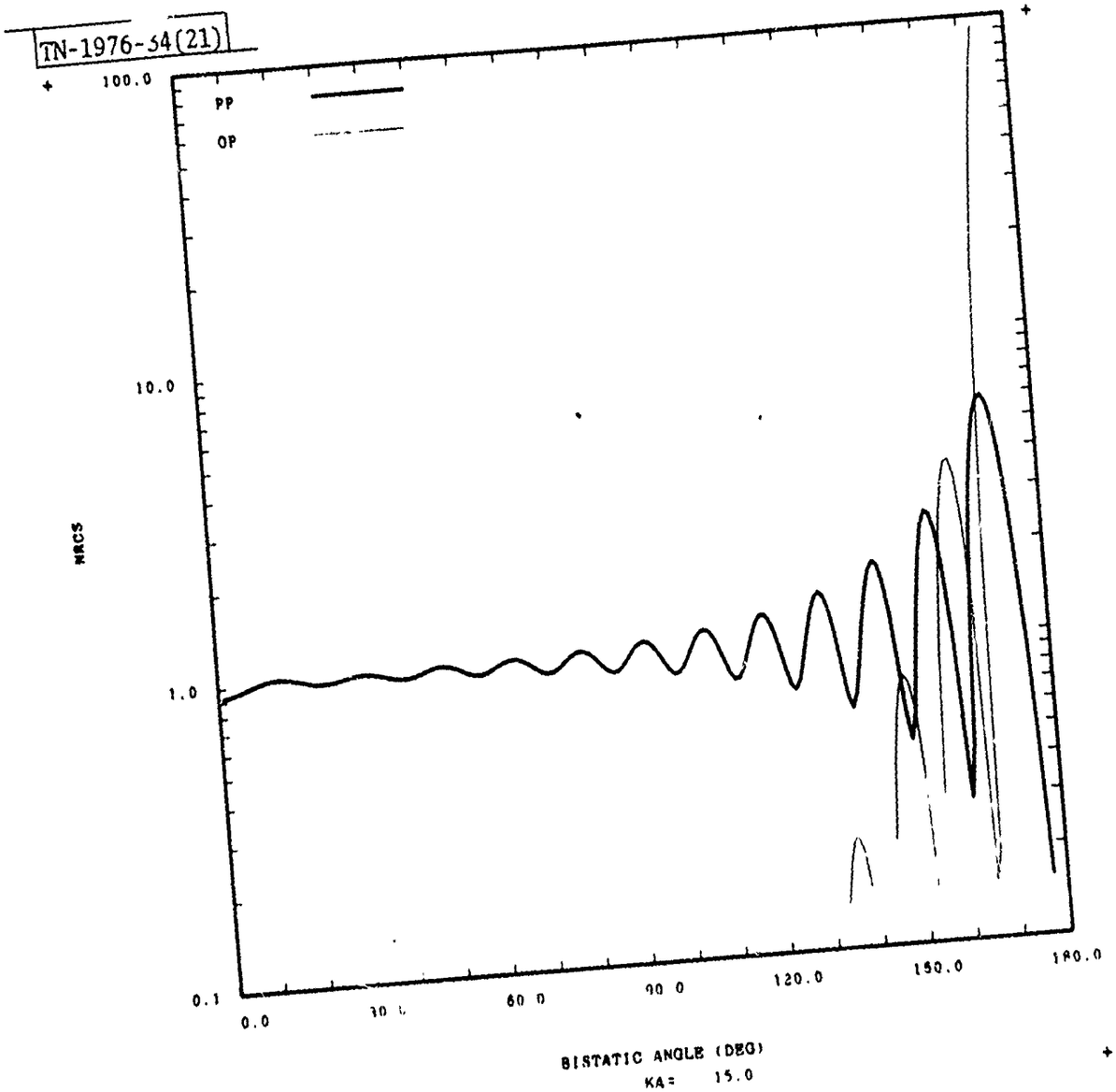


Fig. 21. Normalized radar cross-section vs. bistatic angle.

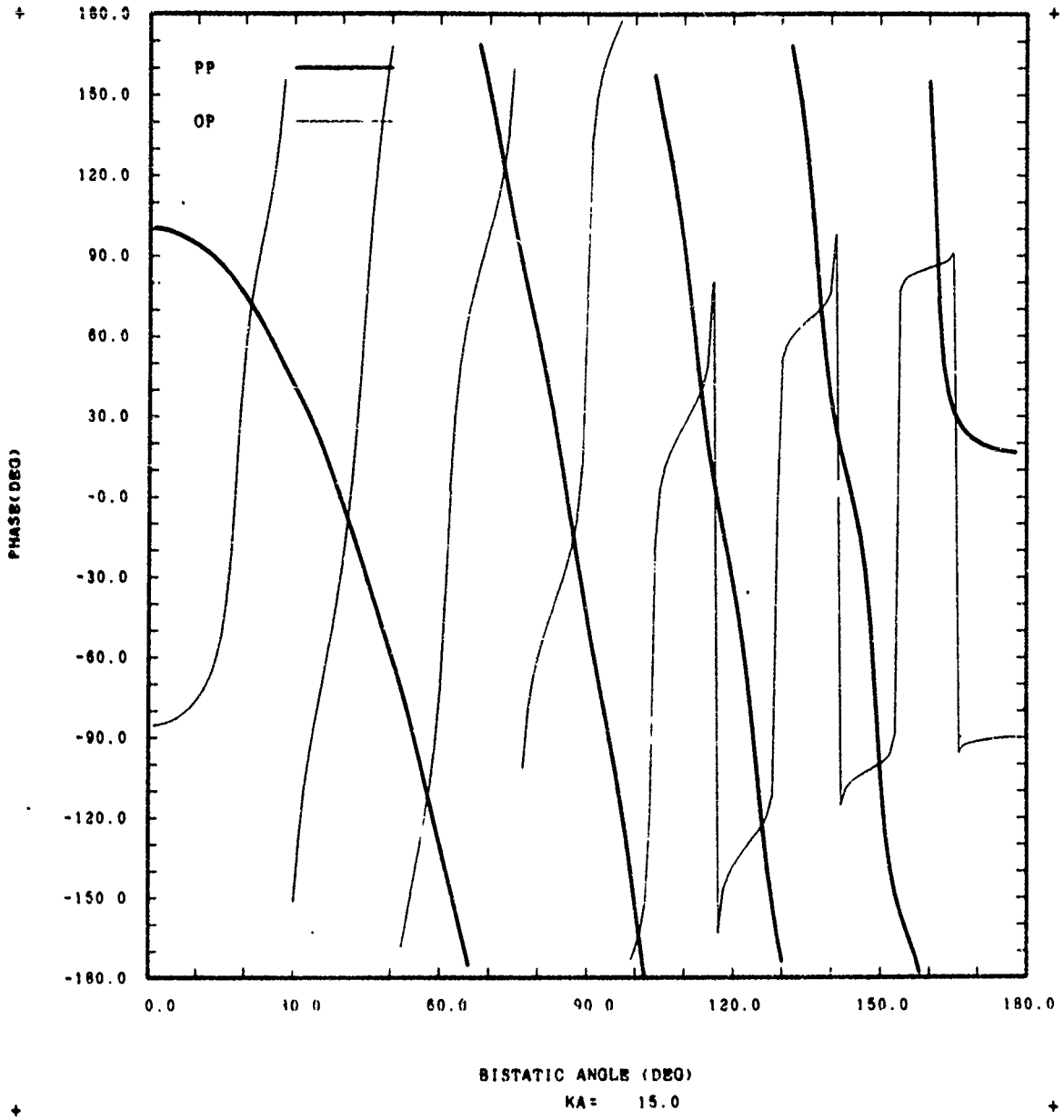


Fig. 22. Phase vs. bistatic angle.

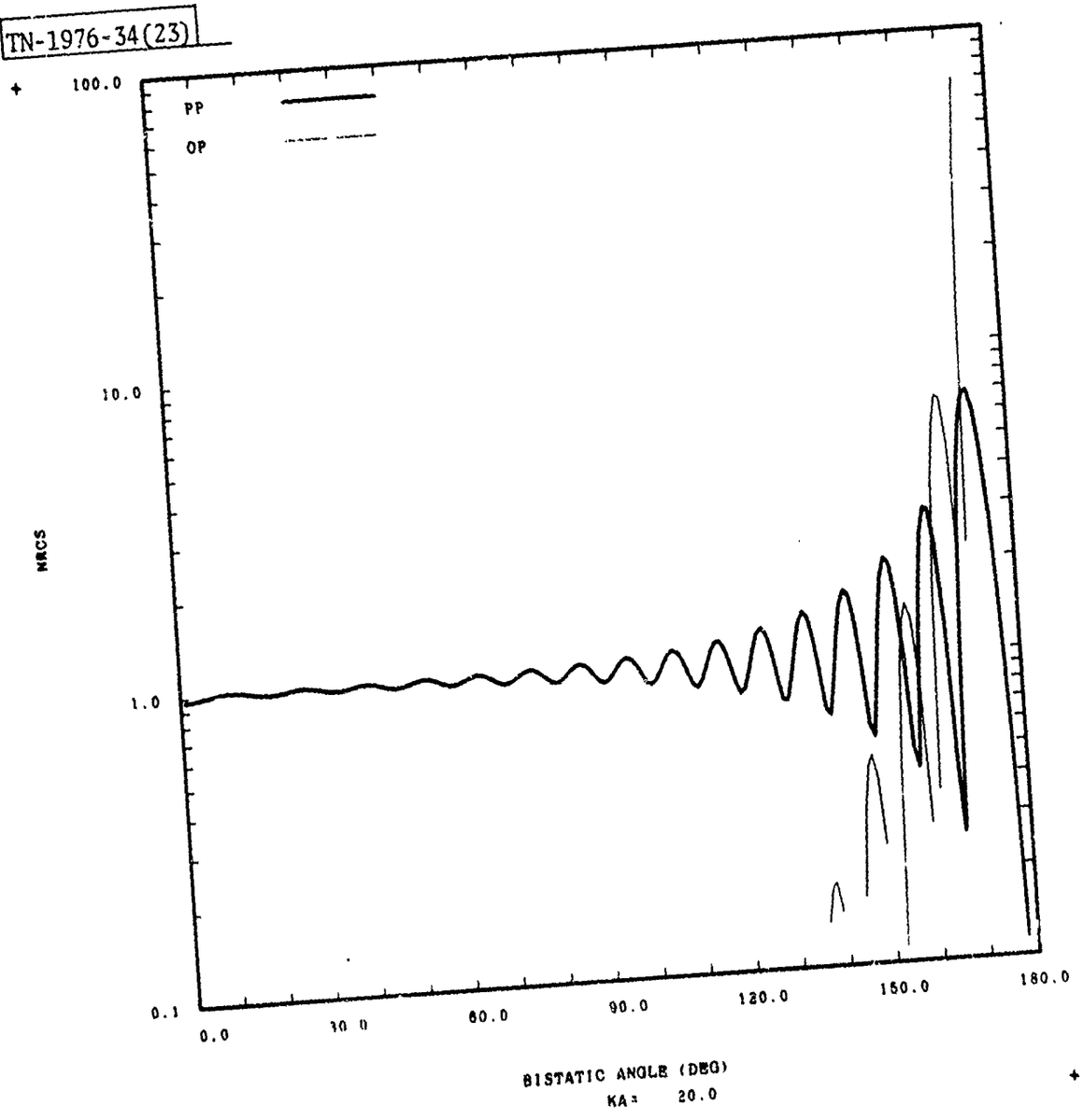


Fig. 23. Normalized radar cross-section vs. bistatic angle.

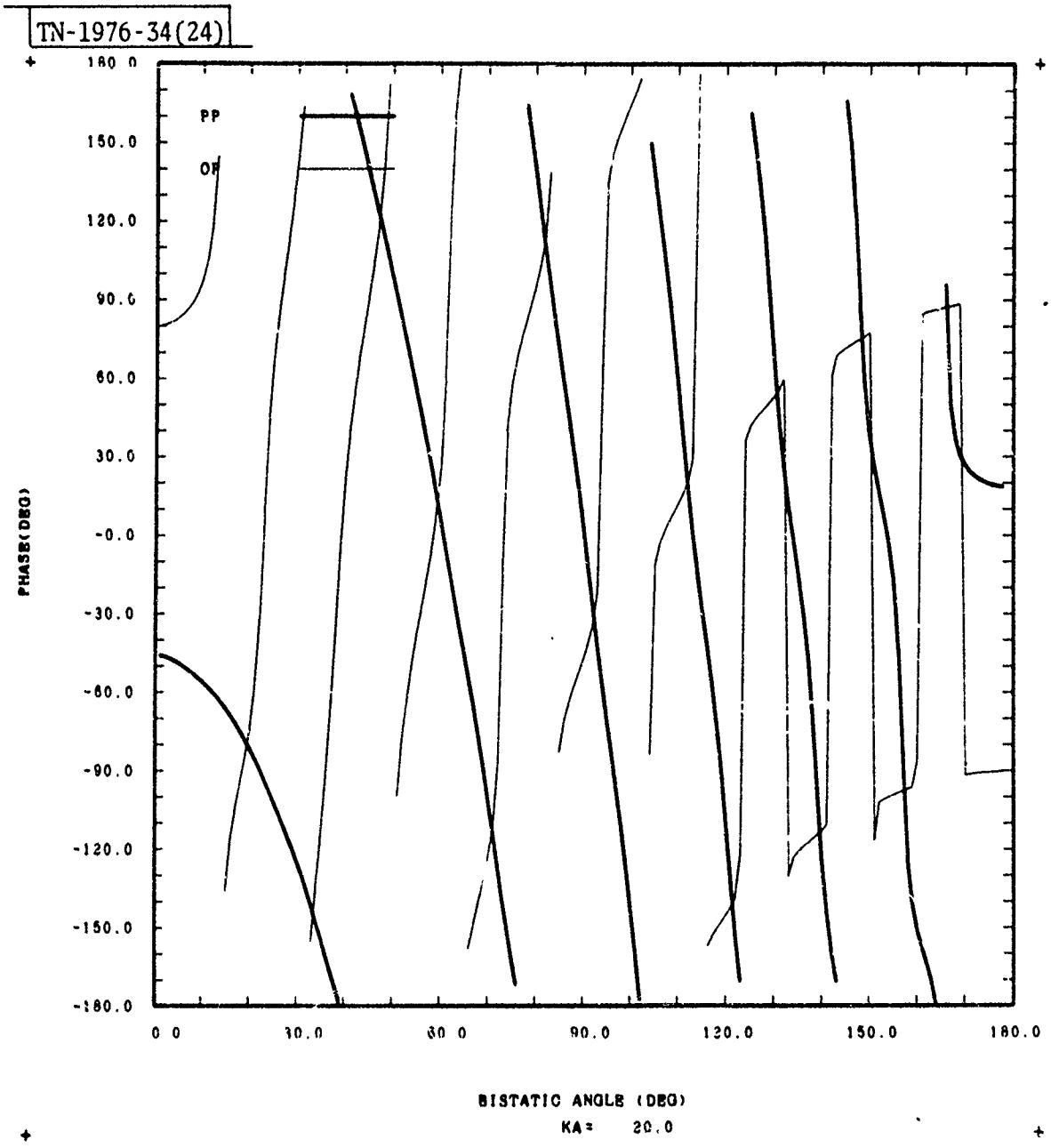


Fig. 24. Phase vs. bistatic angle.

CIRCULAR PP POLARIZATION KA= 1.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.175926D+01	-0.736596D+00	-22.72	3.637567
1.0	0.175919D+01	-0.736540D+00	-22.72	3.637245
2.0	0.175899D+01	-0.736375D+00	-22.72	3.636282
3.0	0.175865D+01	-0.736099D+00	-22.71	3.634676
4.0	0.175817D+01	-0.735714D+00	-22.71	3.632427
5.0	0.175755D+01	-0.735218D+00	-22.70	3.629537
6.0	0.175680D+01	-0.734612D+00	-22.69	3.626004
7.0	0.175591D+01	-0.733897D+00	-22.68	3.621829
8.0	0.175488D+01	-0.733072D+00	-22.67	3.617012
9.0	0.175372D+01	-0.732138D+00	-22.66	3.611553
10.0	0.175241D+01	-0.731095D+00	-22.65	3.605453
11.0	0.175097D+01	-0.729943D+00	-22.63	3.598711
12.0	0.174939D+01	-0.728683D+00	-22.61	3.591328
13.0	0.174766D+01	-0.727314D+00	-22.60	3.583305
14.0	0.174579D+01	-0.725839D+00	-22.58	3.574641
15.0	0.174379D+01	-0.724256D+00	-22.55	3.565336
16.0	0.174163D+01	-0.722566D+00	-22.53	3.555393
17.0	0.173934D+01	-0.720770D+00	-22.51	3.544810
18.0	0.173690D+01	-0.718869D+00	-22.48	3.533589
19.0	0.173431D+01	-0.716862D+00	-22.46	3.521730
20.0	0.173158D+01	-0.714750D+00	-22.43	3.509235
21.0	0.172870D+01	-0.712535D+00	-22.40	3.496103
22.0	0.172567D+01	-0.710217D+00	-22.37	3.482337
23.0	0.172249D+01	-0.707795D+00	-22.34	3.467937
24.0	0.171916D+01	-0.705272D+00	-22.31	3.452905
25.0	0.171567D+01	-0.702648D+00	-22.27	3.437242
26.0	0.171203D+01	-0.699923D+00	-22.24	3.420950
27.0	0.170824D+01	-0.697098D+00	-22.20	3.404030
28.0	0.170429D+01	-0.694175D+00	-22.16	3.386484
29.0	0.170018D+01	-0.691154D+00	-22.12	3.368315
30.0	0.169592D+01	-0.688035D+00	-22.08	3.349525
31.0	0.169149D+01	-0.684820D+00	-22.04	3.330117
32.0	0.168690D+01	-0.681510D+00	-22.00	3.310092
33.0	0.168215D+01	-0.678106D+00	-21.96	3.289455
34.0	0.167723D+01	-0.674609D+00	-21.91	3.268208
35.0	0.167215D+01	-0.671019D+00	-21.87	3.246354
36.0	0.166690D+01	-0.667338D+00	-21.82	3.223899
37.0	0.166148D+01	-0.663567D+00	-21.77	3.200845
38.0	0.165589D+01	-0.659706D+00	-21.72	3.177197
39.0	0.165013D+01	-0.655758D+00	-21.67	3.152960
40.0	0.164420D+01	-0.651723D+00	-21.62	3.128139
41.0	0.163809D+01	-0.647602D+00	-21.57	3.102738
42.0	0.163181D+01	-0.643397D+00	-21.52	3.076765
43.0	0.162535D+01	-0.639109D+00	-21.47	3.050224
44.0	0.161871D+01	-0.634739D+00	-21.41	3.023122
45.0	0.161189D+01	-0.630288D+00	-21.36	2.995466

CIRCULAR OP POLARIZATION KA= 1.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	-0.803801D-13	-0.698677D-13	-139.00	0.000000
1.0	0.419748D-04	-0.756618D-04	-60.98	0.000000
2.0	0.167906D-03	-0.302632D-03	-60.98	0.000000
3.0	0.377804D-03	-0.680845D-03	-60.97	0.000001
4.0	0.671686D-03	-0.121020D-02	-60.97	0.000002
5.0	0.104958D-02	-0.189053D-02	-60.96	0.000005
6.0	0.151151D-02	-0.272167D-02	-60.95	0.000010
7.0	0.205752D-02	-0.370336D-02	-60.94	0.000018
8.0	0.268765D-02	-0.483534D-02	-60.93	0.000031
9.0	0.340195D-02	-0.611728D-02	-60.92	0.000049
10.0	0.420048D-02	-0.754882D-02	-60.91	0.000075
11.0	0.508330D-02	-0.912956D-02	-60.89	0.000109
12.0	0.605047D-02	-0.108591D-01	-60.87	0.000155
13.0	0.710208D-02	-0.127368D-01	-60.86	0.000213
14.0	0.823819D-02	-0.147623D-01	-60.84	0.000286
15.0	0.945889D-02	-0.169349D-01	-60.81	0.000376
16.0	0.107683D-01	-0.192541D-01	-60.79	0.000487
17.0	0.121544D-01	-0.217192D-01	-60.77	0.000619
18.0	0.136294D-01	-0.243294D-01	-60.74	0.000778
19.0	0.151893D-01	-0.270841D-01	-60.72	0.000964
20.0	0.168342D-01	-0.299825D-01	-60.69	0.001182
21.0	0.185643D-01	-0.330237D-01	-60.66	0.001435
22.0	0.203796D-01	-0.362069D-01	-60.63	0.001726
23.0	0.222802D-01	-0.395311D-01	-60.59	0.002059
24.0	0.242662D-01	-0.429956D-01	-60.56	0.002437
25.0	0.263378D-01	-0.465991D-01	-60.52	0.002865
26.0	0.284949D-01	-0.503408D-01	-60.49	0.003346
27.0	0.307377D-01	-0.542195D-01	-60.45	0.003885
28.0	0.330662D-01	-0.582342D-01	-60.41	0.004485
29.0	0.354806D-01	-0.623837D-01	-60.37	0.005151
30.0	0.379809D-01	-0.666668D-01	-60.33	0.005887
31.0	0.405671D-01	-0.710824D-01	-60.29	0.006698
32.0	0.432393D-01	-0.756291D-01	-60.24	0.007589
33.0	0.459976D-01	-0.803056D-01	-60.20	0.008565
34.0	0.488420D-01	-0.851107D-01	-60.15	0.009629
35.0	0.517726D-01	-0.900428D-01	-60.10	0.010788
36.0	0.547892D-01	-0.951008D-01	-60.05	0.012046
37.0	0.578921D-01	-0.100283D+00	-60.00	0.013408
38.0	0.610810D-01	-0.105588D+00	-59.95	0.014880
39.0	0.643561D-01	-0.111018D+00	-59.90	0.016466
40.0	0.677172D-01	-0.116560D+00	-59.84	0.018172
41.0	0.711643D-01	-0.122224D+00	-59.79	0.020003
42.0	0.746973D-01	-0.128005D+00	-59.73	0.021965
43.0	0.783162D-01	-0.133900D+00	-59.68	0.024063
44.0	0.820208D-01	-0.139909D+00	-59.62	0.026302
45.0	0.858110D-01	-0.146029D+00	-59.56	0.028688

CIRCULAR PP POLARIZATION KA= 1.000

THETA	REAL	IMAG	PHASE	MRCS
45.0	0.161189D+01	-0.630288D+00	-21.36	2.995466
46.0	0.160490D+01	-0.625758D+00	-21.30	2.967263
47.0	0.159772D+01	-0.621150D+00	-21.24	2.938527
48.0	0.159035D+01	-0.616465D+00	-21.19	2.909247
49.0	0.158280D+01	-0.611705D+00	-21.13	2.879450
50.0	0.157507D+01	-0.606871D+00	-21.07	2.849139
51.0	0.156715D+01	-0.601965D+00	-21.01	2.818324
52.0	0.155904D+01	-0.596987D+00	-20.95	2.787013
53.0	0.155075D+01	-0.591941D+00	-20.89	2.755217
54.0	0.154227D+01	-0.586826D+00	-20.83	2.722946
55.0	0.153359D+01	-0.581644D+00	-20.77	2.690213
56.0	0.152473D+01	-0.576398D+00	-20.71	2.657028
57.0	0.151567D+01	-0.571088D+00	-20.65	2.623403
58.0	0.150643D+01	-0.565716D+00	-20.58	2.589352
59.0	0.149699D+01	-0.560284D+00	-20.52	2.554886
60.0	0.148735D+01	-0.554794D+00	-20.46	2.520021
61.0	0.147753D+01	-0.549246D+00	-20.39	2.484769
62.0	0.146751D+01	-0.543643D+00	-20.33	2.449145
63.0	0.145730D+01	-0.537986D+00	-20.26	2.413165
64.0	0.144690D+01	-0.532277D+00	-20.20	2.376843
65.0	0.143631D+01	-0.526518D+00	-20.13	2.340196
66.0	0.142552D+01	-0.520710D+00	-20.07	2.303241
67.0	0.141454D+01	-0.514855D+00	-20.00	2.265994
68.0	0.140337D+01	-0.508955D+00	-19.93	2.228472
69.0	0.139200D+01	-0.503012D+00	-19.87	2.190694
70.0	0.138045D+01	-0.497027D+00	-19.80	2.152679
71.0	0.136871D+01	-0.491002D+00	-19.73	2.114444
72.0	0.135678D+01	-0.484939D+00	-19.67	2.076009
73.0	0.134466D+01	-0.478840D+00	-19.60	2.037393
74.0	0.133235D+01	-0.472707D+00	-19.53	1.998618
75.0	0.131986D+01	-0.466541D+00	-19.47	1.959702
76.0	0.130719D+01	-0.460344D+00	-19.40	1.920668
77.0	0.129434D+01	-0.454119D+00	-19.33	1.881535
78.0	0.128130D+01	-0.447866D+00	-19.27	1.842326
79.0	0.126809D+01	-0.441589D+00	-19.20	1.803063
80.0	0.125471D+01	-0.435288D+00	-19.13	1.763766
81.0	0.124115D+01	-0.428966D+00	-19.07	1.724460
82.0	0.122742D+01	-0.422625D+00	-19.00	1.685166
83.0	0.121352D+01	-0.416266D+00	-18.93	1.645907
84.0	0.119946D+01	-0.409892D+00	-18.87	1.606706
85.0	0.118523D+01	-0.403504D+00	-18.80	1.567586
86.0	0.117085D+01	-0.397105D+00	-18.73	1.528571
87.0	0.115630D+01	-0.390695D+00	-18.67	1.489683
88.0	0.114161D+01	-0.384278D+00	-18.60	1.450946
89.0	0.112677D+01	-0.377856D+00	-18.54	1.412384
90.0	0.111178D+01	-0.371429D+00	-18.47	1.374020

CIRCULAR OP POLARIZATION KA= 1.000

THETA	REAL	IMAG	PHASE	MRCS
45.0	0.858110D-01	-0.146029D+00	-59.56	0.028688
46.0	0.896867D-01	-0.152258D+00	-59.50	0.031226
47.0	0.936476D-01	-0.158595D+00	-59.44	0.033922
48.0	0.976935D-01	-0.165039D+00	-59.38	0.036782
49.0	0.101824D+00	-0.171586D+00	-59.31	0.039810
50.0	0.106040D+00	-0.178236D+00	-59.25	0.043012
51.0	0.110339D+00	-0.184986D+00	-59.19	0.046394
52.0	0.114723D+00	-0.191834D+00	-59.12	0.049962
53.0	0.119190D+00	-0.198779D+00	-59.05	0.053719
54.0	0.123741D+00	-0.205818D+00	-58.99	0.057673
55.0	0.128374D+00	-0.212949D+00	-58.92	0.061827
56.0	0.133090D+00	-0.220170D+00	-58.85	0.066188
57.0	0.137887D+00	-0.227480D+00	-58.78	0.070760
58.0	0.142767D+00	-0.234875D+00	-58.71	0.075549
59.0	0.147727D+00	-0.242354D+00	-58.64	0.080559
60.0	0.152767D+00	-0.249915D+00	-58.56	0.085795
61.0	0.157888D+00	-0.257555D+00	-58.49	0.091263
62.0	0.163087D+00	-0.265272D+00	-58.42	0.096967
63.0	0.168365D+00	-0.273065D+00	-58.34	0.102911
64.0	0.173720D+00	-0.280932D+00	-58.27	0.109100
65.0	0.179153D+00	-0.288868D+00	-58.19	0.115538
66.0	0.184661D+00	-0.296867D+00	-58.12	0.122230
67.0	0.190245D+00	-0.304935D+00	-58.04	0.129179
68.0	0.195903D+00	-0.313067D+00	-57.96	0.136389
69.0	0.201635D+00	-0.321259D+00	-57.89	0.143864
70.0	0.207439D+00	-0.329510D+00	-57.81	0.151607
71.0	0.213314D+00	-0.337816D+00	-57.73	0.159623
72.0	0.219260D+00	-0.346176D+00	-57.65	0.167913
73.0	0.225275D+00	-0.354587D+00	-57.57	0.176480
74.0	0.231358D+00	-0.363046D+00	-57.49	0.185329
75.0	0.237508D+00	-0.371551D+00	-57.41	0.194460
76.0	0.243723D+00	-0.380099D+00	-57.33	0.203876
77.0	0.250003D+00	-0.388688D+00	-57.25	0.213580
78.0	0.256345D+00	-0.397316D+00	-57.17	0.223572
79.0	0.262749D+00	-0.405978D+00	-57.09	0.233856
80.0	0.269213D+00	-0.414674D+00	-57.01	0.244431
81.0	0.275736D+00	-0.423401D+00	-56.93	0.255298
82.0	0.282315D+00	-0.432155D+00	-56.84	0.266460
83.0	0.288950D+00	-0.440934D+00	-56.76	0.277915
84.0	0.295638D+00	-0.449736D+00	-56.68	0.289664
85.0	0.302378D+00	-0.458558D+00	-56.60	0.301708
86.0	0.309169D+00	-0.467396D+00	-56.52	0.314045
87.0	0.316007D+00	-0.476250D+00	-56.43	0.326675
88.0	0.322893D+00	-0.485115D+00	-56.35	0.339596
89.0	0.329823D+00	-0.493989D+00	-56.27	0.352808
90.0	0.336795D+00	-0.502870D+00	-56.19	0.366309

CIRCULAR PP POLARIZATION KA= 1.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.111178D+01	-0.371429D+00	-18.47	1.374020
91.0	0.109665D+01	-0.365600D+00	-18.41	1.335876
92.0	0.108139D+01	-0.358572D+00	-18.34	1.297977
93.0	0.106599D+01	-0.352145D+00	-18.28	1.260345
94.0	0.105047D+01	-0.345723D+00	-18.22	1.223004
95.0	0.103482D+01	-0.339306D+00	-18.15	1.185975
96.0	0.101905D+01	-0.332897D+00	-18.09	1.149283
97.0	0.100317D+01	-0.326499D+00	-18.03	1.112948
98.0	0.987178D+00	-0.320112D+00	-17.97	1.076992
99.0	0.971085D+00	-0.313738D+00	-17.90	1.041438
100.0	0.954894D+00	-0.307381D+00	-17.84	1.006306
101.0	0.938611D+00	-0.301041D+00	-17.78	0.971617
102.0	0.922242D+00	-0.294721D+00	-17.72	0.937391
103.0	0.905793D+00	-0.288422D+00	-17.66	0.903648
104.0	0.889269D+00	-0.282147D+00	-17.60	0.870407
105.0	0.872678D+00	-0.275898D+00	-17.54	0.837686
106.0	0.856025D+00	-0.269675D+00	-17.49	0.805503
107.0	0.839317D+00	-0.263482D+00	-17.43	0.773876
108.0	0.822561D+00	-0.257321D+00	-17.37	0.742821
109.0	0.805764D+00	-0.251192D+00	-17.31	0.712354
110.0	0.788933D+00	-0.245098D+00	-17.26	0.682489
111.0	0.772075D+00	-0.239042D+00	-17.20	0.653240
112.0	0.755197D+00	-0.233024D+00	-17.15	0.624622
113.0	0.738306D+00	-0.227047D+00	-17.09	0.596646
114.0	0.721411D+00	-0.221112D+00	-17.04	0.569324
115.0	0.704518D+00	-0.215222D+00	-16.99	0.542666
116.0	0.687636D+00	-0.209377D+00	-16.93	0.516683
117.0	0.670773D+00	-0.203581D+00	-16.88	0.491381
118.0	0.653936D+00	-0.197835D+00	-16.83	0.466770
119.0	0.637133D+00	-0.192140D+00	-16.78	0.442856
120.0	0.620373D+00	-0.186499D+00	-16.73	0.419644
121.0	0.603664D+00	-0.180912D+00	-16.68	0.397139
122.0	0.587014D+00	-0.175383D+00	-16.63	0.375345
123.0	0.570432D+00	-0.169912D+00	-16.59	0.354262
124.0	0.553925D+00	-0.164502D+00	-16.54	0.333894
125.0	0.537503D+00	-0.159153D+00	-16.49	0.314240
126.0	0.521175D+00	-0.153868D+00	-16.45	0.295299
127.0	0.504948D+00	-0.148649D+00	-16.40	0.277069
128.0	0.488831D+00	-0.143497D+00	-16.36	0.259547
129.0	0.472834D+00	-0.138413D+00	-16.32	0.242730
130.0	0.456954D+00	-0.133399D+00	-16.27	0.226612
131.0	0.441231D+00	-0.128457D+00	-16.23	0.211184
132.0	0.425643D+00	-0.123589D+00	-16.19	0.196446
133.0	0.410209D+00	-0.118795D+00	-16.15	0.182384
134.0	0.394937D+00	-0.114078D+00	-16.11	0.168989
135.0	0.379837D+00	-0.109439D+00	-16.07	0.156253

CIRCULAR OP POLARIZATION KA= 1.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.336795D+00	-0.502870D+00	-56.19	0.366309
91.0	0.343808D+00	-0.511754D+00	-56.11	0.380096
92.0	0.350600D+00	-0.520639D+00	-56.02	0.394168
93.0	0.357948D+00	-0.529523D+00	-55.94	0.408521
94.0	0.365070D+00	-0.538402D+00	-55.86	0.423153
95.0	0.372225D+00	-0.547274D+00	-55.78	0.438060
96.0	0.379409D+00	-0.556137D+00	-55.70	0.453239
97.0	0.386620D+00	-0.564986D+00	-55.62	0.468685
98.0	0.393857D+00	-0.573821D+00	-55.54	0.484393
99.0	0.401117D+00	-0.582637D+00	-55.45	0.500360
100.0	0.408396D+00	-0.591433D+00	-55.37	0.516580
101.0	0.415694D+00	-0.600205D+00	-55.29	0.533047
102.0	0.423007D+00	-0.608951D+00	-55.21	0.549756
103.0	0.430332D+00	-0.617668D+00	-55.13	0.566700
104.0	0.437668D+00	-0.626354D+00	-55.06	0.583873
105.0	0.445012D+00	-0.635005D+00	-54.98	0.601267
106.0	0.452360D+00	-0.643620D+00	-54.90	0.618876
107.0	0.459710D+00	-0.652195D+00	-54.82	0.636691
108.0	0.467059D+00	-0.660728D+00	-54.74	0.654706
109.0	0.474405D+00	-0.669216D+00	-54.67	0.672910
110.0	0.481745D+00	-0.677656D+00	-54.59	0.691296
111.0	0.489075D+00	-0.686046D+00	-54.52	0.709854
112.0	0.496394D+00	-0.694384D+00	-54.44	0.728575
113.0	0.503697D+00	-0.702666D+00	-54.37	0.747450
114.0	0.510983D+00	-0.710890D+00	-54.29	0.766467
115.0	0.518247D+00	-0.719053D+00	-54.22	0.785618
116.0	0.525488D+00	-0.727153D+00	-54.14	0.804890
117.0	0.532702D+00	-0.735188D+00	-54.07	0.824273
118.0	0.539887D+00	-0.743154D+00	-54.00	0.843756
119.0	0.547038D+00	-0.751050D+00	-53.93	0.863327
120.0	0.554153D+00	-0.758873D+00	-53.86	0.882973
121.0	0.561229D+00	-0.766619D+00	-53.79	0.902684
122.0	0.568263D+00	-0.774288D+00	-53.72	0.922446
123.0	0.575252D+00	-0.781877D+00	-53.66	0.942246
124.0	0.582193D+00	-0.789382D+00	-53.59	0.962072
125.0	0.589082D+00	-0.796802D+00	-53.52	0.981911
126.0	0.595916D+00	-0.804134D+00	-53.46	1.001748
127.0	0.602693D+00	-0.811377D+00	-53.39	1.021571
128.0	0.609409D+00	-0.818527D+00	-53.33	1.041366
129.0	0.616061D+00	-0.825583D+00	-53.27	1.061118
130.0	0.622646D+00	-0.832541D+00	-53.21	1.080813
131.0	0.629161D+00	-0.839401D+00	-53.15	1.100438
132.0	0.635603D+00	-0.846160D+00	-53.09	1.119978
133.0	0.641969D+00	-0.852815D+00	-53.03	1.139417
134.0	0.648255D+00	-0.859365D+00	-52.97	1.158743
135.0	0.654459D+00	-0.865807D+00	-52.91	1.177939

CIRCULAR PP POLARIZATION KA= 1.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.379837D+00	-0.109439D+00	-16.07	0.156253
136.0	0.364917D+00	-0.104879D+00	-16.03	0.144164
137.0	0.350185D+00	-0.100399D+00	-16.00	0.132710
138.0	0.335651D+00	-0.960023D-01	-15.96	0.121878
139.0	0.321322D+00	-0.916888D-01	-15.93	0.111655
140.0	0.307208D+00	-0.874601D-01	-15.89	0.102026
141.0	0.293316D+00	-0.833178D-01	-15.86	0.092976
142.0	0.279656D+00	-0.792631D-01	-15.82	0.084490
143.0	0.266235D+00	-0.752972D-01	-15.79	0.076551
144.0	0.253061D+00	-0.714214D-01	-15.76	0.069141
145.0	0.240142D+00	-0.676370D-01	-15.73	0.062243
146.0	0.227488D+00	-0.639451D-01	-15.70	0.055840
147.0	0.215104D+00	-0.603469D-01	-15.67	0.049912
148.0	0.203000D+00	-0.568437D-01	-15.64	0.044440
149.0	0.191182D+00	-0.534364D-01	-15.62	0.039406
150.0	0.179659D+00	-0.501261D-01	-15.59	0.034790
151.0	0.168437D+00	-0.469140D-01	-15.56	0.030572
152.0	0.157523D+00	-0.438009D-01	-15.54	0.026732
153.0	0.146925D+00	-0.407881D-01	-15.52	0.023251
154.0	0.136650D+00	-0.378763D-01	-15.49	0.020108
155.0	0.126703D+00	-0.350664D-01	-15.47	0.017283
156.0	0.117092D+00	-0.323596D-01	-15.45	0.014758
157.0	0.107823D+00	-0.297564D-01	-15.43	0.012511
158.0	0.989016D-01	-0.272579D-01	-15.41	0.010525
159.0	0.903339D-01	-0.248647D-01	-15.39	0.008778
160.0	0.821256D-01	-0.225777D-01	-15.37	0.007254
161.0	0.742820D-01	-0.203976D-01	-15.35	0.005934
162.0	0.668083D-01	-0.183251D-01	-15.34	0.004799
163.0	0.597096D-01	-0.163608D-01	-15.32	0.003833
164.0	0.529906D-01	-0.145054D-01	-15.31	0.003018
165.0	0.466557D-01	-0.127594D-01	-15.30	0.002340
166.0	0.407092D-01	-0.111235D-01	-15.28	0.001781
167.0	0.351551D-01	-0.959807D-02	-15.27	0.001328
168.0	0.299972D-01	-0.818369D-02	-15.26	0.000967
169.0	0.252390D-01	-0.688079D-02	-15.25	0.000684
170.0	0.208836D-01	-0.568979D-02	-15.24	0.000468
171.0	0.169340D-01	-0.461107D-02	-15.23	0.000308
172.0	0.133929D-01	-0.364496D-02	-15.22	0.000193
173.0	0.102627D-01	-0.279179D-02	-15.22	0.000113
174.0	0.754552D-02	-0.205182D-02	-15.21	0.000061
175.0	0.524323D-02	-0.142530D-02	-15.21	0.000030
176.0	0.335739D-02	-0.912408D-03	-15.20	0.000012
177.0	0.188928D-02	-0.513325D-03	-15.20	0.000004
178.0	0.839920D-03	-0.228175D-03	-15.20	0.000001
179.0	0.210016D-03	-0.570483D-04	-15.20	0.000000
180.0	0.948984D-12	0.434019D-12	24.59	0.000000

CIRCULAR CP POLARIZATION KA= 1.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.654459D+00	-0.865807D+00	-52.91	1.177939
136.0	0.660578D+00	-0.872140D+00	-52.86	1.196991
137.0	0.666608D+00	-0.878361D+00	-52.80	1.215884
138.0	0.672547D+00	-0.884468D+00	-52.75	1.234604
139.0	0.678392D+00	-0.890460D+00	-52.70	1.253135
140.0	0.684140D+00	-0.896334D+00	-52.65	1.271462
141.0	0.689787D+00	-0.902089D+00	-52.60	1.289571
142.0	0.695332D+00	-0.907723D+00	-52.55	1.307447
143.0	0.700771D+00	-0.913233D+00	-52.50	1.325075
144.0	0.706102D+00	-0.918619D+00	-52.45	1.342440
145.0	0.711321D+00	-0.923878D+00	-52.41	1.359528
146.0	0.716427D+00	-0.929009D+00	-52.36	1.376325
147.0	0.721416D+00	-0.934010D+00	-52.32	1.392815
148.0	0.726286D+00	-0.938879D+00	-52.28	1.408985
149.0	0.731034D+00	-0.943615D+00	-52.23	1.424821
150.0	0.735658D+00	-0.948217D+00	-52.19	1.440309
151.0	0.740156D+00	-0.952683D+00	-52.16	1.455435
152.0	0.744525D+00	-0.957011D+00	-52.12	1.470186
153.0	0.748762D+00	-0.961200D+00	-52.08	1.484549
154.0	0.752866D+00	-0.965248D+00	-52.05	1.498511
155.0	0.756834D+00	-0.969155D+00	-52.01	1.512060
156.0	0.760665D+00	-0.972919D+00	-51.98	1.525183
157.0	0.764355D+00	-0.976539D+00	-51.95	1.537868
158.0	0.767904D+00	-0.980014D+00	-51.92	1.550104
159.0	0.771309D+00	-0.983343D+00	-51.89	1.561880
160.0	0.774568D+00	-0.986525D+00	-51.86	1.573184
161.0	0.777680D+00	-0.989556D+00	-51.84	1.584006
162.0	0.780643D+00	-0.992438D+00	-51.81	1.594337
163.0	0.783455D+00	-0.995171D+00	-51.79	1.604166
164.0	0.786114D+00	-0.997752D+00	-51.77	1.613484
165.0	0.788620D+00	-0.100018D+01	-51.74	1.622283
166.0	0.790971D+00	-0.100246D+01	-51.73	1.630554
167.0	0.793166D+00	-0.100458D+01	-51.71	1.638289
168.0	0.795202D+00	-0.100655D+01	-51.69	1.645482
169.0	0.797081D+00	-0.100836D+01	-51.67	1.652124
170.0	0.798799D+00	-0.101002D+01	-51.66	1.658211
171.0	0.800356D+00	-0.101152D+01	-51.65	1.663736
172.0	0.801752D+00	-0.101286D+01	-51.64	1.668693
173.0	0.802986D+00	-0.101405D+01	-51.63	1.673079
174.0	0.804056D+00	-0.101508D+01	-51.62	.676889
175.0	0.804963D+00	-0.101595D+01	-51.61	1.680118
176.0	0.805706D+00	-0.101666D+01	-51.60	1.682765
177.0	0.806284D+00	-0.101722D+01	-51.60	1.684826
178.0	0.806697D+00	-0.101761D+01	-51.59	1.686299
179.0	0.806945D+00	-0.101785D+01	-51.59	1.687184
180.0	0.807027D+00	-0.101793D+01	-51.59	1.687479

CIRCULAR PP POLARIZATION KA= 2.000

THETA	REAL	IMAG	PHASE	RCS
0.0	0.168582D-01	0.100392D+01	89.04	1.008143
1.0	0.171326D-01	0.100370D+01	89.02	1.007699
2.0	0.179559D-01	0.100302D+01	86.97	1.006369
3.0	0.193280D-01	0.100189D+01	88.82	1.004158
4.0	0.212484D-01	0.100031D+01	88.78	1.001076
5.0	0.237169D-01	0.998285D+00	88.64	0.997136
6.0	0.267329D-01	0.995812D+00	88.46	0.992355
7.0	0.302958D-01	0.992893D+00	88.25	0.986755
8.0	0.344049D-01	0.989532D+00	88.01	0.980358
9.0	0.390593D-01	0.985732D+00	87.73	0.973194
10.0	0.442579D-01	0.981496D+00	87.42	0.965293
11.0	0.499996D-01	0.976827D+00	87.07	0.956691
12.0	0.562832D-01	0.971729D+00	86.69	0.947426
13.0	0.631070D-01	0.966208D+00	86.26	0.937540
14.0	0.704696D-01	0.960266D+00	85.80	0.927078
15.0	0.783690D-01	0.953911D+00	85.30	0.916087
16.0	0.868032D-01	0.947146D+00	84.76	0.904620
17.0	0.957700D-01	0.939978D+00	84.18	0.892730
18.0	0.105267D+00	0.932412D+00	83.56	0.880474
19.0	0.115292D+00	0.924456D+00	82.89	0.867911
20.0	0.125841D+00	0.916116D+00	82.18	0.855104
21.0	0.136911D+00	0.907399D+00	81.42	0.842117
22.0	0.148500D+00	0.898312D+00	80.61	0.829016
23.0	0.160603D+00	0.888863D+00	79.76	0.815871
24.0	0.173216D+00	0.879061D+00	78.85	0.802751
25.0	0.186335D+00	0.868913D+00	77.90	0.789730
26.0	0.199955D+00	0.858427D+00	76.89	0.776880
27.0	0.214071D+00	0.847614D+00	75.83	0.764276
28.0	0.228678D+00	0.836482D+00	74.71	0.751996
29.0	0.243770D+00	0.825040D+00	73.54	0.740115
30.0	0.259342D+00	0.813298D+00	72.31	0.728711
31.0	0.275385D+00	0.801266D+00	71.03	0.717863
32.0	0.291894D+00	0.788953D+00	69.70	0.707649
33.0	0.308860D+00	0.776371D+00	68.31	0.698147
34.0	0.326276D+00	0.763530D+00	66.86	0.689434
35.0	0.344134D+00	0.750440D+00	65.36	0.681589
36.0	0.362424D+00	0.737113D+00	63.82	0.674687
37.0	0.381137D+00	0.723559D+00	62.22	0.668804
38.0	0.400264D+00	0.709791D+00	60.58	0.664014
39.0	0.419792D+00	0.695818D+00	58.90	0.660388
40.0	0.439713D+00	0.681653D+00	57.18	0.657998
41.0	0.460013D+00	0.667308D+00	55.42	0.656912
42.0	0.480681D+00	0.652794D+00	53.63	0.657195
43.0	0.501704D+00	0.638123D+00	51.82	0.658909
44.0	0.523069D+00	0.623306D+00	50.00	0.662114
45.0	0.544761D+00	0.608361D+00	48.16	0.666867

CIRCULAR OP POLARIZATION KA= 2.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.603870D-12	0.529909D-12	138.73	0.000000
1.0	-0.710715D-04	0.850812D-04	129.87	0.000000
2.0	-0.284262D-03	0.340098D-03	129.89	0.000000
3.0	-0.639485D-03	0.764353D-03	129.92	0.000001
4.0	-0.113659D-02	0.135668D-02	129.96	0.000003
5.0	-0.177538D-02	0.211545D-02	130.00	0.000008
6.0	-0.255559D-02	0.303859D-02	130.07	0.000016
7.0	-0.347688D-02	0.412353D-02	130.14	0.000029
8.0	-0.453887D-02	0.536728D-02	130.22	0.000049
9.0	-0.574110D-02	0.676637D-02	130.31	0.000079
10.0	-0.708304D-02	0.831691D-02	130.42	0.000119
11.0	-0.856410D-02	0.100145D-01	130.54	0.000174
12.0	-0.101836D-01	0.118545D-01	130.66	0.000244
13.0	-0.119408D-01	0.138315D-01	130.80	0.000334
14.0	-0.138349D-01	0.159399D-01	130.96	0.000445
15.0	-0.158650D-01	0.181737D-01	131.12	0.000582
16.0	-0.180300D-01	0.205264D-01	131.30	0.000746
17.0	-0.203289D-01	0.229911D-01	131.48	0.000942
18.0	-0.227605D-01	0.255604D-01	131.68	0.001171
19.0	-0.253236D-01	0.282267D-01	131.90	0.001438
20.0	-0.280166D-01	0.309820D-01	132.12	0.001745
21.0	-0.308382D-01	0.338179D-01	132.36	0.002095
22.0	-0.337867D-01	0.367254D-01	132.61	0.002490
23.0	-0.368604D-01	0.396955D-01	132.88	0.002934
24.0	-0.400575D-01	0.427188D-01	133.16	0.003429
25.0	-0.433759D-01	0.457853D-01	133.45	0.003978
26.0	-0.468135D-01	0.488850D-01	133.76	0.004581
27.0	-0.503681D-01	0.520074D-01	134.08	0.005242
28.0	-0.540373D-01	0.551418D-01	134.42	0.005961
29.0	-0.578186D-01	0.582773D-01	134.77	0.006739
30.0	-0.617091D-01	0.614025D-01	135.14	0.007578
31.0	-0.657061D-01	0.645059D-01	135.53	0.008478
32.0	-0.698066D-01	0.675758D-01	135.93	0.009439
33.0	-0.740073D-01	0.706002D-01	136.35	0.010461
34.0	-0.783048D-01	0.735669D-01	136.79	0.011544
35.0	-0.826957D-01	0.764636D-01	137.24	0.012685
36.0	-0.871762D-01	0.792777D-01	137.72	0.013885
37.0	-0.917424D-01	0.819965D-01	138.21	0.015140
38.0	-0.963902D-01	0.846071D-01	138.72	0.016449
39.0	-0.101115D+00	0.870966D-01	139.26	0.017810
40.0	-0.105913D+00	0.894519D-01	139.82	0.019219
41.0	-0.110779D+00	0.916597D-01	140.40	0.020674
42.0	-0.115708D+00	0.937069D-01	141.00	0.022169
43.0	-0.120696D+00	0.955801D-01	141.62	0.023703
44.0	-0.125736D+00	0.972659D-01	142.28	0.025270
45.0	-0.130824D+00	0.987510D-01	142.95	0.026867

CIRCULAR PP POLARIZATION KA= 2.000

THETA	REAL	IMAG	PHASE	MRCS
45.0	0.544761D+00	0.608361D+00	48.16	0.666867
46.0	0.566765D+00	0.593293D+00	46.31	0.673219
47.0	0.589067D+00	0.578116D+00	44.46	0.681219
48.0	0.611651D+00	0.562845D+00	42.62	0.690911
49.0	0.634499D+00	0.547490D+00	40.79	0.702334
50.0	0.657595D+00	0.532064D+00	38.98	0.715524
51.0	0.680921D+00	0.516579D+00	37.19	0.730508
52.0	0.704458D+00	0.501048D+00	35.42	0.747311
53.0	0.728187D+00	0.485484D+00	33.69	0.765951
54.0	0.752088D+00	0.469898D+00	32.00	0.786441
55.0	0.776141D+00	0.454302D+00	30.34	0.808786
56.0	0.800324D+00	0.438711D+00	28.73	0.832985
57.0	0.824615D+00	0.423135D+00	27.16	0.859033
58.0	0.848992D+00	0.407586D+00	25.64	0.886918
59.0	0.873433D+00	0.392077D+00	24.17	0.916609
60.0	0.897912D+00	0.376619D+00	22.76	0.948088
61.0	0.922406D+00	0.361225D+00	21.39	0.981316
62.0	0.946890D+00	0.345906D+00	20.07	1.016252
63.0	0.971339D+00	0.330673D+00	18.80	1.052844
64.0	0.995726D+00	0.315539D+00	17.58	1.091035
65.0	0.102002D+01	0.300514D+00	16.42	1.130759
66.0	0.104421D+01	0.285610D+00	15.30	1.171943
67.0	0.106825D+01	0.270837D+00	14.23	1.214507
68.0	0.109212D+01	0.256206D+00	13.20	1.258364
69.0	0.111579D+01	0.241728D+00	12.22	1.303416
70.0	0.113923D+01	0.227413D+00	11.29	1.349563
71.0	0.116242D+01	0.213270D+00	10.46	1.396694
72.0	0.118531D+01	0.199311D+00	9.55	1.444693
73.0	0.120789D+01	0.185544D+00	8.73	1.493436
74.0	0.123013D+01	0.171979D+00	7.96	1.542795
75.0	0.125199D+01	0.158625D+00	7.22	1.592633
76.0	0.127344D+01	0.145490D+00	6.52	1.642809
77.0	0.129445D+01	0.132583D+00	5.85	1.693177
78.0	0.131499D+01	0.119913D+00	5.21	1.743585
79.0	0.133504D+01	0.107487D+00	4.60	1.793878
80.0	0.135455D+01	0.953123D-01	4.02	1.843896
81.0	0.137351D+01	0.833969D-01	3.47	1.893477
82.0	0.139187D+01	0.717474D-01	2.95	1.942454
83.0	0.140962D+01	0.603704D-01	2.45	1.990661
84.0	0.142671D+01	0.492722D-01	1.98	2.037927
85.0	0.144312D+01	0.384586D-01	1.53	2.084084
86.0	0.145883D+01	0.279353D-01	1.10	2.128960
87.0	0.147380D+01	0.177074D-01	0.69	2.172387
88.0	0.148800D+01	0.777980D-02	0.30	2.214195
89.0	0.150141D+01	-0.184314D-02	-0.07	2.254221
90.0	0.151399D+01	-0.111573D-01	-0.42	2.292300

CIRCULAR OP POLARIZATION KA= 2.000

THETA	REAL	IMAG	PHASE	MRCS
45.0	-0.130824D+00	0.987510D-01	142.95	0.026867
46.0	-0.135953D+00	0.100022D+00	143.66	0.028488
47.0	-0.141118D+00	0.101065D+00	144.39	0.030128
48.0	-0.146313D+00	0.101868D+00	145.15	0.031784
49.0	-0.151531D+00	0.102417D+00	145.95	0.033451
50.0	-0.156765D+00	0.102698D+00	146.77	0.035122
51.0	-0.162010D+00	0.102698D+00	147.63	0.036794
52.0	-0.167258D+00	0.102406D+00	148.52	0.038462
53.0	-0.172502D+00	0.101806D+00	149.45	0.040122
54.0	-0.177735D+00	0.100888D+00	150.42	0.041768
55.0	-0.182949D+00	0.996379D-01	151.43	0.043398
56.0	-0.188137D+00	0.980435D-01	152.47	0.045000
57.0	-0.193290D+00	0.960928D-01	153.57	0.046595
58.0	-0.198401D+00	0.937737D-01	154.70	0.048157
59.0	-0.203462D+00	0.910744D-01	155.89	0.049691
60.0	-0.208464D+00	0.879835D-01	157.12	0.051198
61.0	-0.213398D+00	0.844897D-01	158.40	0.052677
62.0	-0.218256D+00	0.805821D-01	159.74	0.054129
63.0	-0.223030D+00	0.762501D-01	161.13	0.055557
64.0	-0.227710D+00	0.714834D-01	162.57	0.056962
65.0	-0.232288D+00	0.662720D-01	164.08	0.058349
66.0	-0.236753D+00	0.606063D-01	165.64	0.059725
67.0	-0.241098D+00	0.544771D-01	167.27	0.061096
68.0	-0.245313D+00	0.478757D-01	168.96	0.062470
69.0	-0.249388D+00	0.407935D-01	170.71	0.063858
70.0	-0.253314D+00	0.332227D-01	172.53	0.065272
71.0	-0.257082D+00	0.251558D-01	174.41	0.066724
72.0	-0.260683D+00	0.165855D-01	176.36	0.068230
73.0	-0.264106D+00	0.750547D-02	178.37	0.069808
74.0	-0.267343D+00	-0.209053D-02	-179.55	0.071476
75.0	-0.270384D+00	-0.122081D-01	-177.41	0.073256
76.0	-0.273219D+00	-0.228522D-01	-175.22	0.075171
77.0	-0.275841D+00	-0.340276D-01	-172.97	0.077246
78.0	-0.278238D+00	-0.457381D-01	-170.66	0.079508
79.0	-0.280403D+00	-0.579873D-01	-168.32	0.081988
80.0	-0.282326D+00	-0.707781D-01	-165.93	0.084718
81.0	-0.283999D+00	-0.841127D-01	-163.50	0.087730
82.0	-0.285412D+00	-0.979929D-01	-161.05	0.091063
83.0	-0.286558D+00	-0.112420D+00	-158.58	0.094754
84.0	-0.287427D+00	-0.127394D+00	-156.10	0.098844
85.0	-0.288013D+00	-0.142915D+00	-153.61	0.103376
86.0	-0.288307D+00	-0.158983D+00	-151.13	0.108396
87.0	-0.288301D+00	-0.175596D+00	-148.66	0.113951
88.0	-0.287988D+00	-0.192753D+00	-146.21	0.120091
89.0	-0.287361D+00	-0.210450D+00	-143.78	0.126866
90.0	-0.286414D+00	-0.228684D+00	-141.39	0.134329

CIRCULAR PP POLARIZATION KA= 2.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.151399D+01	-0.111573D-01	-0.42	2.292300
91.0	0.152573D+01	-0.201590D-01	-0.76	2.328272
92.0	0.153660D+01	-0.288448D-01	-1.08	2.361984
93.0	0.154658D+01	-0.372119D-01	-1.38	2.393285
94.0	0.155563D+01	-0.452577D-01	-1.67	2.422032
95.0	0.156374D+01	-0.529800D-01	-1.94	2.448088
96.0	0.157088D+01	-0.603770D-01	-2.20	2.471323
97.0	0.157704D+01	-0.674474D-01	-2.45	2.491617
98.0	0.158220D+01	-0.741901D-01	-2.68	2.508859
99.0	0.158633D+01	-0.806046D-01	-2.91	2.522945
100.0	0.158942D+01	-0.866906D-01	-3.12	2.533785
101.0	0.159146D+01	-0.924482D-01	-3.32	2.541297
102.0	0.159243D+01	-0.978781D-01	-3.52	2.545413
103.0	0.159232D+01	-0.102981D+00	-3.70	2.546076
104.0	0.159111D+01	-0.107759D+00	-3.87	2.543241
105.0	0.158880D+01	-0.112213D+00	-4.04	2.536878
106.0	0.158538D+01	-0.116345D+00	-4.20	2.526969
107.0	0.158065D+01	-0.120157D+00	-4.35	2.513510
108.0	0.157519D+01	-0.123654D+00	-4.49	2.496511
109.0	0.156846D+01	-0.126837D+00	-4.62	2.475996
110.0	0.156051D+01	-0.129710D+00	-4.75	2.452004
111.0	0.155148D+01	-0.132278D+00	-4.87	2.424586
112.0	0.154133D+01	-0.134544D+00	-4.99	2.393810
113.0	0.153007D+01	-0.136512D+00	-5.10	2.359756
114.0	0.151770D+01	-0.138189D+00	-5.20	2.322519
115.0	0.150424D+01	-0.139579D+00	-5.30	2.282206
116.0	0.148968D+01	-0.140687D+00	-5.40	2.238937
117.0	0.147405D+01	-0.141520D+00	-5.48	2.192847
118.0	0.145736D+01	-0.142084D+00	-5.57	2.144080
119.0	0.143962D+01	-0.142384D+00	-5.65	2.092793
120.0	0.142087D+01	-0.142429D+00	-5.72	2.039152
121.0	0.140111D+01	-0.142224D+00	-5.80	1.983334
122.0	0.138037D+01	-0.141777D+00	-5.86	1.925524
123.0	0.135868D+01	-0.141096D+00	-5.93	1.865916
124.0	0.133606D+01	-0.140187D+00	-5.99	1.804710
125.0	0.131255D+01	-0.139060D+00	-6.05	1.742112
126.0	0.128816D+01	-0.137722D+00	-6.10	1.678333
127.0	0.126295D+01	-0.136182D+00	-6.15	1.613568
128.0	0.123694D+01	-0.134447D+00	-6.20	1.548093
129.0	0.121017D+01	-0.132528D+00	-6.25	1.482067
130.0	0.118267D+01	-0.130432D+00	-6.29	1.415728
131.0	0.115450D+01	-0.128169D+00	-6.33	1.349294
132.0	0.112568D+01	-0.125748D+00	-6.37	1.282978
133.0	0.109628D+01	-0.123178D+00	-6.41	1.216993
134.0	0.106632D+01	-0.120469D+00	-6.45	1.151534
135.0	0.103586D+01	-0.117629D+00	-6.48	1.096833

CIRCULAR OP POLARIZATION KA= 2.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.265414D+00	-0.228684D+00	-141.39	0.134329
91.0	-0.265140D+00	-0.247452D+00	-139.05	0.142537
92.0	-0.263533D+00	-0.266748D+00	-136.75	0.151546
93.0	-0.261587D+00	-0.286569D+00	-134.50	0.161413
94.0	-0.259298D+00	-0.306908D+00	-132.30	0.172200
95.0	-0.276660D+00	-0.327758D+00	-130.17	0.183966
96.0	-0.273669D+00	-0.349112D+00	-128.09	0.196774
97.0	-0.270320D+00	-0.370963D+00	-126.08	0.210687
98.0	-0.266612D+00	-0.393302D+00	-124.13	0.225768
99.0	-0.262539D+00	-0.416120D+00	-122.25	0.242083
100.0	-0.258101D+00	-0.439407D+00	-120.43	0.259695
101.0	-0.253295D+00	-0.463153D+00	-118.67	0.278669
102.0	-0.248119D+00	-0.487347D+00	-116.98	0.299070
103.0	-0.242573D+00	-0.511978D+00	-115.35	0.320963
104.0	-0.236656D+00	-0.537032D+00	-113.78	0.344409
105.0	-0.230369D+00	-0.562497D+00	-112.27	0.369473
106.0	-0.223712D+00	-0.588360D+00	-110.82	0.396215
107.0	-0.216686D+00	-0.614607D+00	-109.42	0.424695
108.0	-0.209294D+00	-0.641223D+00	-108.08	0.454971
109.0	-0.201539D+00	-0.668192D+00	-106.78	0.487098
110.0	-0.193423D+00	-0.695499D+00	-105.54	0.521131
111.0	-0.184950D+00	-0.723128D+00	-104.35	0.557120
112.0	-0.176125D+00	-0.751061D+00	-103.20	0.595112
113.0	-0.166953D+00	-0.779281D+00	-102.09	0.635153
114.0	-0.157440D+00	-0.807771D+00	-101.03	0.677282
115.0	-0.147592D+00	-0.836512D+00	-100.01	0.721536
116.0	-0.137416D+00	-0.865485D+00	-99.02	0.767947
117.0	-0.126919D+00	-0.894670D+00	-98.07	0.816544
118.0	-0.116111D+00	-0.924049D+00	-97.16	0.867348
119.0	-0.104999D+00	-0.953600D+00	-96.28	0.920378
120.0	-0.935947D-01	-0.983304D+00	-95.44	0.975646
121.0	-0.819065D-01	-0.101314D+01	-94.62	1.033158
122.0	-0.699459D-01	-0.104308D+01	-93.84	1.092914
123.0	-0.577241D-01	-0.107312D+01	-93.08	1.154909
124.0	-0.452532D-01	-0.110321D+01	-92.35	1.219129
125.0	-0.325457D-01	-0.113336D+01	-91.64	1.285557
126.0	-0.196147D-01	-0.116352D+01	-90.97	1.354166
127.0	-0.647381D-02	-0.119368D+01	-90.31	1.424923
128.0	0.686267D-02	-0.122382D+01	-89.68	1.497788
129.0	0.203801D-01	-0.125391D+01	-89.07	1.572713
130.0	0.340632D-01	-0.128393D+01	-88.48	1.649644
131.0	0.478964D-01	-0.131386D+01	-87.91	1.728517
132.0	0.618635D-01	-0.134366D+01	-87.36	1.809262
133.0	0.759481D-01	-0.137333D+01	-86.83	1.891802
134.0	0.901330D-01	-0.140283D+01	-86.32	1.976052
135.0	0.104401D+00	-0.143219D+01	-85.83	2.061919

CIRCULAR PP POLARIZATION KA= 2.000

THETA	REAL	IMAG	PHASE	RCS
135.0	0.1035860+01	-0.117629D+00	-6.48	1.086833
136.0	0.100498D+01	-0.114669D+00	-6.51	1.023052
137.0	0.973619D+00	-0.111599D+00	-6.54	0.960387
138.0	0.941944D+00	-0.108426D+00	-6.57	0.899014
139.0	0.909967D+00	-0.105163D+00	-6.59	0.839099
140.0	0.877741D+00	-0.101818D+00	-6.62	0.780797
141.0	0.845321D+00	-0.984003D-01	-6.64	0.724250
142.0	0.812760D+00	-0.949205D-01	-6.66	0.669589
143.0	0.780115D+00	-0.913881D-01	-6.68	0.616932
144.0	0.747442D+00	-0.878127D-01	-6.70	0.566381
145.0	0.714796D+00	-0.842039D-01	-6.72	0.518026
146.0	0.682239D+00	-0.805712D-01	-6.74	0.471942
147.0	0.649824D+00	-0.769241D-01	-6.75	0.428188
148.0	0.617609D+00	-0.732719D-01	-6.77	0.386810
149.0	0.585659D+00	-0.696240D-01	-6.78	0.347838
150.0	0.554014D+00	-0.659893D-01	-6.79	0.311286
151.0	0.522747D+00	-0.623770D-01	-6.80	0.277156
152.0	0.491912D+00	-0.587959D-01	-6.82	0.245434
153.0	0.461563D+00	-0.552546D-01	-6.83	0.216093
154.0	0.431757D+00	-0.517617D-01	-6.84	0.189093
155.0	0.402549D+00	-0.483254D-01	-6.85	0.164381
156.0	0.373995D+00	-0.449540D-01	-6.85	0.141893
157.0	0.346146D+00	-0.416552D-01	-6.86	0.121552
158.0	0.319056D+00	-0.384369D-01	-6.87	0.103274
159.0	0.292776D+00	-0.353063D-01	-6.88	0.086964
160.0	0.267356D+00	-0.322708D-01	-6.88	0.072520
161.0	0.242843D+00	-0.293373D-01	-6.89	0.059834
162.0	0.219286D+00	-0.265123D-01	-6.89	0.048789
163.0	0.196728D+00	-0.238024D-01	-6.90	0.039269
164.0	0.175214D+00	-0.212136D-01	-6.90	0.031150
165.0	0.154785D+00	-0.187517D-01	-6.91	0.024310
166.0	0.135481D+00	-0.164222D-01	-6.91	0.018625
167.0	0.117338D+00	-0.142304D-01	-6.91	0.013971
168.0	0.100393D+00	-0.121810D-01	-6.92	0.010227
169.0	0.846784D-01	-0.102785D-01	-6.92	0.007276
170.0	0.702247D-01	-0.852728D-02	-6.92	0.005004
171.0	0.570603D-01	-0.693106D-02	-6.93	0.003304
172.0	0.452111D-01	-0.549336D-02	-6.93	0.002074
173.0	0.347004D-01	-0.421733D-02	-6.93	0.001222
174.0	0.255489D-01	-0.310577D-02	-6.93	0.000662
175.0	0.177744D-01	-0.216109D-02	-6.93	0.000321
176.0	0.113925D-01	-0.138536D-02	-6.93	0.000132
177.0	0.641569D-02	-0.780251D-03	-6.93	0.000042
178.0	0.285377D-02	-0.347092D-03	-6.93	0.000008
179.0	0.713795D-03	-0.868202D-04	-6.93	0.000001
180.0	0.694930D-11	-0.600209D-11	-40.82	0.000000

CIRCULAR OP POLARIZATION KA= 2.000

THETA	REAL	IMAG	PHASE	RCS
135.0	0.104401D+00	-0.143214D+01	-85.83	2.061919
136.0	0.118735D+00	-0.146123D+01	-85.35	2.149302
137.0	0.133115D+00	-0.149009D+01	-84.90	2.238095
138.0	0.147525D+00	-0.151869D+01	-84.45	2.328181
139.0	0.161986D+00	-0.154700D+01	-84.02	2.419440
140.0	0.176358D+00	-0.157500D+01	-83.61	2.511743
141.0	0.190744D+00	-0.160268D+01	-83.21	2.604954
142.0	0.205083D+00	-0.162999D+01	-82.83	2.698931
143.0	0.219356D+00	-0.165693D+01	-82.46	2.793527
144.0	0.233544D+00	-0.168346D+01	-82.10	2.888589
145.0	0.247628D+00	-0.170957D+01	-81.76	2.983957
146.0	0.261586D+00	-0.173523D+01	-81.43	3.079468
147.0	0.275405D+00	-0.176043D+01	-81.11	3.174954
148.0	0.289058D+00	-0.178513D+01	-80.80	3.270241
149.0	0.302530D+00	-0.180932D+01	-80.51	3.365154
150.0	0.315800D+00	-0.183297D+01	-80.22	3.459514
151.0	0.328850D+00	-0.185607D+01	-79.95	3.553138
152.0	0.341661D+00	-0.187859D+01	-79.69	3.645843
153.0	0.354218D+00	-0.190052D+01	-79.44	3.737443
154.0	0.366490D+00	-0.192183D+01	-79.20	3.827752
155.0	0.378472D+00	-0.194251D+01	-78.97	3.916583
156.0	0.390142D+00	-0.196253D+01	-78.76	4.003749
157.0	0.401482D+00	-0.198189D+01	-78.55	4.089064
158.0	0.412476D+00	-0.200055D+01	-78.35	4.172345
159.0	0.423107D+00	-0.201851D+01	-78.16	4.253408
160.0	0.433359D+00	-0.203575D+01	-77.98	4.332076
161.0	0.443216D+00	-0.205225D+01	-77.81	4.408170
162.0	0.452666D+00	-0.206800D+01	-77.65	4.481520
163.0	0.461687D+00	-0.208298D+01	-77.50	4.551957
164.0	0.470272D+00	-0.209718D+01	-77.36	4.619319
165.0	0.478407D+00	-0.211059D+01	-77.23	4.683449
166.0	0.486077D+00	-0.212319D+01	-77.11	4.744197
167.0	0.493272D+00	-0.213497D+01	-76.99	4.801420
168.0	0.499980D+00	-0.214593D+01	-76.88	4.854980
169.0	0.506191D+00	-0.215604D+01	-76.79	4.904750
170.0	0.511895D+00	-0.216531D+01	-76.70	4.950609
171.0	0.517083D+00	-0.217372D+01	-76.62	4.992448
172.0	0.521746D+00	-0.218127D+01	-76.55	5.030163
173.0	0.525881D+00	-0.218795D+01	-76.49	5.063663
174.0	0.529476D+00	-0.219375D+01	-76.43	5.092866
175.0	0.532527D+00	-0.219866D+01	-76.38	5.117699
176.0	0.535031D+00	-0.220269D+01	-76.35	5.138101
177.0	0.536982D+00	-0.220583D+01	-76.32	5.154023
178.0	0.538378D+00	-0.220807D+01	-76.30	5.165423
179.0	0.539216D+00	-0.220942D+01	-76.28	5.172275
180.0	0.539496D+00	-0.220987D+01	-76.28	5.174561

CIRCULAR PP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.721010D+00	0.301678D-01	177.60	0.520765
1.0	-0.721188D+00	0.306128D-01	177.57	0.521049
2.0	-0.721721D+00	0.319867D-01	177.47	0.521901
3.0	-0.722607D+00	0.341671D-01	177.29	0.523329
4.0	-0.723845D+00	0.372693D-01	177.05	0.525331
5.0	-0.725432D+00	0.412470D-01	176.75	0.527953
6.0	-0.727363D+00	0.460922D-01	176.37	0.531181
7.0	-0.729633D+00	0.517951D-01	175.94	0.535047
8.0	-0.732237D+00	0.583440D-01	175.44	0.539575
9.0	-0.735167D+00	0.657259D-01	174.89	0.544791
10.0	-0.738417D+00	0.739255D-01	174.28	0.550725
11.0	-0.741977D+00	0.829265D-01	173.62	0.557406
12.0	-0.745837D+00	0.927105D-01	172.91	0.564868
13.0	-0.749987D+00	0.103258D+00	172.16	0.573143
14.0	-0.754416D+00	0.114587D+00	171.37	0.582264
15.0	-0.759110D+00	0.126554D+00	170.54	0.592263
16.0	-0.764055D+00	0.139257D+00	169.67	0.603173
17.0	-0.769238D+00	0.152628D+00	168.78	0.615022
18.0	-0.774642D+00	0.166641D+00	167.86	0.627839
19.0	-0.780250D+00	0.181268D+00	166.92	0.641648
20.0	-0.786044D+00	0.196478D+00	165.97	0.656469
21.0	-0.792005D+00	0.212241D+00	165.00	0.672318
22.0	-0.798113D+00	0.228525D+00	164.02	0.689208
23.0	-0.804346D+00	0.245297D+00	163.04	0.707143
24.0	-0.810681D+00	0.262524D+00	162.06	0.726123
25.0	-0.817096D+00	0.280169D+00	161.07	0.746140
26.0	-0.823564D+00	0.298198D+00	160.10	0.767180
27.0	-0.830061D+00	0.316574D+00	159.12	0.789220
28.0	-0.836558D+00	0.335259D+00	158.16	0.812228
29.0	-0.843027D+00	0.354217D+00	157.21	0.836165
30.0	-0.849439D+00	0.373408D+00	156.27	0.860981
31.0	-0.855764D+00	0.392795D+00	155.34	0.886619
32.0	-0.861968D+00	0.412337D+00	154.44	0.913010
33.0	-0.868019D+00	0.431995D+00	153.54	0.940077
34.0	-0.873884D+00	0.451730D+00	152.66	0.967732
35.0	-0.879526D+00	0.471502D+00	151.80	0.995880
36.0	-0.884910D+00	0.491271D+00	150.96	1.024413
37.0	-0.889999D+00	0.510996D+00	150.14	1.053216
38.0	-0.894755D+00	0.530640D+00	149.33	1.082166
39.0	-0.899139D+00	0.550161D+00	148.54	1.111128
40.0	-0.903110D+00	0.569522D+00	147.76	1.139963
41.0	-0.906629D+00	0.588682D+00	147.00	1.168523
42.0	-0.909654D+00	0.607604D+00	146.26	1.196653
43.0	-0.912144D+00	0.626249D+00	145.53	1.224194
44.0	-0.914055D+00	0.644581D+00	144.81	1.250981
45.0	-0.915345D+00	0.662563D+00	144.10	1.276846

CIRCULAR OP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.401623D-13	-0.300245D-12	-97.62	0.000000
1.0	0.105120D-03	-0.104294D-03	-44.77	0.000000
2.0	0.420360D-03	-0.416575D-03	-44.74	0.000000
3.0	0.945334D-03	-0.935022D-03	-44.69	0.000002
4.0	0.167[illegible]D-02	-0.165661D-02	-44.61	0.000006
5.0	0.26[illegible]D-02	-0.257711D-02	-44.51	0.000018
6.0	0.377091D-02	-0.369112D-02	-44.39	0.000028
7.0	0.512575D-02	-0.499208D-02	-44.24	0.000051
8.0	0.668444D-02	-0.647227D-02	-44.08	0.000087
9.0	0.844498D-02	-0.812288D-02	-43.89	0.000137
10.0	0.104051D-01	-0.993401D-02	-43.67	0.000207
11.0	0.125621D-01	-0.118947D-01	-43.44	0.000299
12.0	0.149133D-01	-0.139900D-01	-43.18	0.000418
13.0	0.174552D-01	-0.162161D-01	-42.89	0.000568
14.0	0.201845D-01	-0.185499D-01	-42.58	0.000752
15.0	0.230971D-01	-0.209800D-01	-42.25	0.000974
16.0	0.261888D-01	-0.234907D-01	-41.89	0.001238
17.0	0.294551D-01	-0.260658D-01	-41.51	0.001547
18.0	0.328908D-01	-0.286883D-01	-41.10	0.001905
19.0	0.364907D-01	-0.313405D-01	-40.66	0.002314
20.0	0.402[illegible]D-01	-0.340044D-01	-40.19	0.002776
21.0	0.441593D-01	-0.366612D-01	-39.70	0.003294
22.0	0.482152D-01	-0.392919D-01	-39.18	0.003869
23.0	0.524096D-01	-0.418769D-01	-38.63	0.004500
24.0	0.567350D-01	-0.443966D-01	-38.04	0.005190
25.0	0.611834D-01	-0.468309D-01	-37.43	0.005937
26.0	0.657465D-01	-0.491598D-01	-36.79	0.006739
27.0	0.704154D-01	-0.513632D-01	-36.11	0.007597
28.0	0.751808D-01	-0.534210D-01	-35.40	0.008506
29.0	0.800328D-01	-0.553133D-01	-34.65	0.009465
30.0	0.849612D-01	-0.570203D-01	-33.87	0.010470
31.0	0.899553D-01	-0.585226D-01	-33.05	0.011517
32.0	0.950039D-01	-0.598010D-01	-32.19	0.012602
33.0	0.100095D+00	-0.608371D-01	-31.29	0.013720
34.0	0.105217D+00	-0.616126D-01	-30.35	0.014867
35.0	0.110358D+00	-0.621103D-01	-29.37	0.016036
36.0	0.115503D+00	-0.623133D-01	-28.35	0.017224
37.0	0.120640D+00	-0.622059D-01	-27.28	0.018424
38.0	0.125755D+00	-0.617729D-01	-26.16	0.019630
39.0	0.130833D+00	-0.610005D-01	-25.00	0.020838
40.0	0.135861D+00	-0.598754D-01	-23.78	0.022043
41.0	0.140823D+00	-0.583860D-01	-22.52	0.023240
42.0	0.145703D+00	-0.565216D-01	-21.20	0.024424
43.0	0.150488D+00	-0.542727D-01	-19.83	0.025592
44.0	0.155159D+00	-0.516314D-01	-18.41	0.026740
45.0	0.159703D+00	-0.485912D-01	-16.92	0.027866

CIRCULAR PP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.915345D+00	0.662563D+00	144.10	1.276846
46.0	-0.915971D+00	0.680160D+00	143.40	1.301619
47.0	-0.915889D+00	0.697335D+00	142.72	1.325128
48.0	-0.915055D+00	0.714056D+00	142.03	1.347292
49.0	-0.913427D+00	0.730288D+00	141.36	1.367670
50.0	-0.910960D+00	0.746001D+00	140.69	1.386366
51.0	-0.907611D+00	0.761163D+00	140.02	1.403127
52.0	-0.903337D+00	0.775745D+00	139.35	1.417798
53.0	-0.898095D+00	0.789718D+00	138.67	1.430230
54.0	-0.891844D+00	0.803055D+00	138.00	1.440283
55.0	-0.884542D+00	0.815731D+00	137.32	1.447831
56.0	-0.876150D+00	0.827720D+00	136.63	1.452759
57.0	-0.866628D+00	0.839000D+00	135.93	1.454965
58.0	-0.855938D+00	0.849551D+00	135.21	1.454366
59.0	-0.844044D+00	0.859351D+00	134.49	1.450894
60.0	-0.830911D+00	0.868383D+00	133.74	1.444503
61.0	-0.816507D+00	0.876631D+00	132.97	1.435165
62.0	-0.800800D+00	0.884078D+00	132.17	1.422875
63.0	-0.783761D+00	0.890714D+00	131.35	1.407652
64.0	-0.765364D+00	0.896525D+00	130.49	1.389538
65.0	-0.745585D+00	0.901502D+00	129.59	1.368602
66.0	-0.724402D+00	0.905637D+00	128.66	1.344936
67.0	-0.701796D+00	0.908924D+00	127.67	1.318661
68.0	-0.677753D+00	0.911359D+00	126.64	1.289924
69.0	-0.652259D+00	0.912939D+00	125.54	1.258899
70.0	-0.625306D+00	0.913663D+00	124.39	1.225788
71.0	-0.596889D+00	0.913532D+00	123.16	1.190817
72.0	-0.567004D+00	0.912549D+00	121.85	1.154240
73.0	-0.535655D+00	0.910719D+00	120.46	1.116336
74.0	-0.502848D+00	0.908047D+00	118.98	1.077406
75.0	-0.468592D+00	0.904542D+00	117.39	1.037775
76.0	-0.432902D+00	0.900213D+00	115.68	0.997788
77.0	-0.395797D+00	0.895072D+00	113.85	0.957809
78.0	-0.357299D+00	0.889132D+00	111.89	0.918218
79.0	-0.317438D+00	0.882406D+00	109.79	0.879407
80.0	-0.276244D+00	0.874912D+00	107.52	0.841781
81.0	-0.233755D+00	0.866666D+00	105.09	0.805752
82.0	-0.190014D+00	0.857689D+00	102.49	0.771736
83.0	-0.145066D+00	0.848000D+00	99.71	0.740148
84.0	-0.989630D-01	0.837621D+00	96.74	0.711403
85.0	-0.517617D-01	0.826576D+00	93.58	0.685907
86.0	-0.352302D-02	0.814888D+00	90.25	0.664055
87.0	0.456872D-01	0.802584D+00	86.74	0.646228
88.0	0.957982D-01	0.789689D+00	83.08	0.632786
89.0	0.146735D+00	0.776232D+00	79.30	0.624067
90.0	0.198417D+00	0.762240D+00	75.47	0.620380

CIRCULAR OP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.159703D+00	-0.485912D-01	-16.92	0.027866
46.0	0.164102D+00	-0.451468D-01	-15.38	0.028768
47.0	0.168340D+00	-0.412948D-01	-13.78	0.030044
48.0	0.172401D+00	-0.370333D-01	-12.12	0.031094
49.0	0.176268D+00	-0.323618D-01	-10.40	0.032118
50.0	0.179926D+00	-0.272821D-01	-8.62	0.033118
51.0	0.183357D+00	-0.217971D-01	-6.78	0.034095
52.0	0.186546D+00	-0.159121D-01	-4.88	0.035053
53.0	0.189476D+00	-0.963378D-02	-2.91	0.035994
54.0	0.192131D+00	-0.297105D-02	-0.89	0.036923
55.0	0.194497D+00	0.406544D-02	1.20	0.037845
56.0	0.196557D+00	0.114631D-01	3.34	0.038766
57.0	0.198296D+00	0.192073D-01	5.53	0.039690
58.0	0.199702D+00	0.272814D-01	7.78	0.040625
59.0	0.200759D+00	0.356671D-01	10.07	0.041576
60.0	0.201454D+00	0.443437D-01	12.41	0.042550
61.0	0.201775D+00	0.532888D-01	14.79	0.043553
62.0	0.201709D+00	0.624780D-01	17.21	0.044590
63.0	0.201247D+00	0.718848D-01	19.66	0.045668
64.0	0.200377D+00	0.814809D-01	22.13	0.046790
65.0	0.199090D+00	0.912361D-01	24.62	0.047961
66.0	0.197379D+00	0.101118D+00	27.13	0.049183
67.0	0.195234D+00	0.111094D+00	29.64	0.050458
68.0	0.192652D+00	0.121126D+00	32.16	0.051786
69.0	0.189625D+00	0.131179D+00	34.67	0.053166
70.0	0.186152D+00	0.141213D+00	37.18	0.054593
71.0	0.182228D+00	0.151187D+00	39.68	0.056064
72.0	0.177853D+00	0.161059D+00	42.16	0.057572
73.0	0.173027D+00	0.170786D+00	44.63	0.059106
74.0	0.167752D+00	0.180322D+00	47.07	0.060657
75.0	0.162030D+00	0.189621D+00	49.49	0.062210
76.0	0.155866D+00	0.198637D+00	51.88	0.063751
77.0	0.149266D+00	0.207319D+00	54.25	0.065262
78.0	0.142238D+00	0.215619D+00	56.59	0.066723
79.0	0.134790D+00	0.223487D+00	58.90	0.068115
80.0	0.126934D+00	0.230871D+00	61.20	0.069414
81.0	0.118682D+00	0.237720D+00	63.47	0.070596
82.0	0.110047D+00	0.243981D+00	65.72	0.071637
83.0	0.101045D+00	0.249601D+00	67.96	0.072511
84.0	0.916935D-01	0.254529D+00	70.19	0.073193
85.0	0.820106D-01	0.258711D+00	72.41	0.073657
86.0	0.720168D-01	0.262095D+00	74.64	0.073880
87.0	0.617338D-01	0.264626D+00	76.87	0.073838
88.0	0.511847D-01	0.266254D+00	79.12	0.073511
89.0	0.403943D-01	0.266927D+00	81.39	0.072882
90.0	0.293887D-01	0.266592D+00	83.71	0.071935

CIRCULAR PP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	0.198417D+00	0.762240D+00	75.41	0.620380
91.0	0.250761D+00	0.747745D+00	71.46	0.622003
92.0	0.303677D+00	0.732774D+00	67.49	0.629178
93.0	0.357073D+00	0.717361D+00	63.54	0.642108
94.0	0.410853D+00	0.701536D+00	59.64	0.660952
95.0	0.464915D+00	0.685331D+00	55.85	0.685824
96.0	0.519155D+00	0.668779D+00	52.18	0.716787
97.0	0.573466D+00	0.651913D+00	48.66	0.753854
98.0	0.627737D+00	0.634767D+00	45.32	0.796982
99.0	0.681855D+00	0.617373D+00	42.16	0.846075
100.0	0.735703D+00	0.599765D+00	39.19	0.900978
101.0	0.789165D+00	0.581978D+00	36.41	0.961479
102.0	0.842119D+00	0.564044D+00	33.81	1.027310
103.0	0.894444D+00	0.545998D+00	31.40	1.098143
104.0	0.945018D+00	0.527871D+00	29.16	1.173598
105.0	0.996717D+00	0.509699D+00	27.09	1.253239
106.0	0.104642D+01	0.491512D+00	25.16	1.336576
107.0	0.109500D+01	0.473343D+00	23.38	1.423075
108.0	0.114233D+01	0.455224D+00	21.73	1.512155
109.0	0.118830D+01	0.437186D+00	20.20	1.603193
110.0	0.123278D+01	0.419258D+00	18.79	1.695531
111.0	0.127566D+01	0.401471D+00	17.47	1.788483
112.0	0.131681D+01	0.383853D+00	16.25	1.881334
113.0	0.135613D+01	0.366431D+00	15.12	1.973355
114.0	0.139350D+01	0.349233D+00	14.07	2.063803
115.0	0.142882D+01	0.332284D+00	13.09	2.151932
116.0	0.146198D+01	0.315609D+00	12.18	2.236997
117.0	0.149289D+01	0.299231D+00	11.33	2.318266
118.0	0.152146D+01	0.283173D+00	10.54	2.395022
119.0	0.154759D+01	0.267456D+00	9.81	2.466575
120.0	0.157121D+01	0.252099D+00	9.12	2.532268
121.0	0.159225D+01	0.237121D+00	8.47	2.591484
122.0	0.161063D+01	0.222540D+00	7.87	2.643651
123.0	0.162629D+01	0.208369D+00	7.30	2.688253
124.0	0.163919D+01	0.194625D+00	6.77	2.724833
125.0	0.164928D+01	0.181320D+00	6.27	2.752998
126.0	0.165652D+01	0.168466D+00	5.81	2.772427
127.0	0.166088D+01	0.156071D+00	5.37	2.782872
128.0	0.166234D+01	0.144146D+00	4.96	2.784163
129.0	0.166090D+01	0.132696D+00	4.57	2.776210
130.0	0.165656D+01	0.121728D+00	4.20	2.759005
131.0	0.164932D+01	0.111245D+00	3.86	2.732622
132.0	0.163920D+01	0.101250D+00	3.53	2.697218
133.0	0.162623D+01	0.917444D-01	3.23	2.653030
134.0	0.161044D+01	0.827282D-01	2.94	2.600374
135.0	0.159190D+01	0.741995D-01	2.67	2.539642

CIRCULAR OP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	0.293887D-01	0.266592D+00	83.71	0.071935
91.0	0.181954D-01	0.265200D+00	86.08	0.070662
92.0	0.684320D-02	0.262702D+00	88.51	0.069059
93.0	-0.463799D-02	0.259048D+00	91.03	0.067127
94.0	-0.162169D-01	0.254191D+00	93.65	0.064876
95.0	-0.278614D-01	0.248086D+00	96.41	0.062323
96.0	-0.395382D-01	0.240689D+00	99.33	0.059494
97.0	-0.512130D-01	0.231956D+00	102.45	0.056426
98.0	-0.628510D-01	0.221847D+00	105.82	0.053166
99.0	-0.744165D-01	0.210324D+00	109.48	0.049774
100.0	-0.858733D-01	0.197349D+00	113.52	0.046321
101.0	-0.971845D-01	0.182889D+00	117.99	0.042893
102.0	-0.108313D+00	0.166910D+00	122.98	0.039591
103.0	-0.119222D+00	0.149385D+00	128.59	0.036530
104.0	-0.129873D+00	0.130287D+00	134.91	0.033841
105.0	-0.140229D+00	0.109590D+00	141.99	0.031674
106.0	-0.150253D+00	0.872749D-01	149.85	0.030193
107.0	-0.159908D+00	0.633233D-01	158.40	0.029580
108.0	-0.169157D+00	0.377202D-01	167.43	0.030037
109.0	-0.177964D+00	0.104543D-01	176.64	0.031781
110.0	-0.186294D+00	-0.184828D-01	-174.33	0.035047
111.0	-0.194113D+00	-0.490958D-01	-165.31	0.040090
112.0	-0.201386D+00	-0.813860D-01	-157.99	0.047180
113.0	-0.208082D+00	-0.115351D+00	-151.00	0.056604
114.0	-0.214170D+00	-0.150985D+00	-144.82	0.068665
115.0	-0.219619D+00	-0.188278D+00	-139.39	0.083681
116.0	-0.224402D+00	-0.227217D+00	-134.64	0.101984
117.0	-0.228493D+00	-0.267784D+00	-130.47	0.123917
118.0	-0.231865D+00	-0.309959D+00	-126.80	0.149836
119.0	-0.234498D+00	-0.353716D+00	-123.54	0.180104
120.0	-0.236370D+00	-0.399026D+00	-120.64	0.215093
121.0	-0.237463D+00	-0.445858D+00	-118.04	0.255178
122.0	-0.237760D+00	-0.494175D+00	-115.69	0.300738
123.0	-0.237247D+00	-0.543936D+00	-113.57	0.352152
124.0	-0.235914D+00	-0.595097D+00	-111.62	0.409795
125.0	-0.233750D+00	-0.647610D+00	-109.85	0.474038
126.0	-0.230751D+00	-0.701424D+00	-108.21	0.545241
127.0	-0.226911D+00	-0.756484D+00	-106.70	0.623756
128.0	-0.222232D+00	-0.812730D+00	-105.29	0.709917
129.0	-0.216713D+00	-0.870101D+00	-103.99	0.804040
130.0	-0.210361D+00	-0.928530D+00	-102.77	0.906420
131.0	-0.203182D+00	-0.987950D+00	-101.62	1.017328
132.0	-0.195188D+00	-0.104829D+01	-100.55	1.137003
133.0	-0.186391D+00	-0.110947D+01	-99.54	1.265656
134.0	-0.176808D+00	-0.117141D+01	-98.58	1.403461
135.0	-0.166459D+00	-0.123404D+01	-97.68	1.550552

CIRCULAR PP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.159190D+01	0.741995D-01	2.67	2.539642
136.0	0.157064D+01	0.661554D-01	2.41	2.471297
137.0	0.154675D+01	0.585918D-01	2.17	2.395867
138.0	0.152029D+01	0.515030D-01	1.94	2.313943
139.0	0.149136D+01	0.448822D-01	1.72	2.226167
140.0	0.146004D+01	0.387215D-01	1.52	2.133228
141.0	0.142645D+01	0.330118D-01	1.33	2.035856
142.0	0.139070D+01	0.277428D-01	1.14	1.934807
143.0	0.135290D+01	0.229032D-01	0.97	1.830861
144.0	0.131319D+01	0.184809D-01	0.81	1.726808
145.0	0.127170D+01	0.144626D-01	0.65	1.617442
146.0	0.122859D+01	0.108344D-01	0.51	1.509550
147.0	0.118400D+01	0.758140D-02	0.37	1.401904
148.0	0.113808D+01	0.468816D-02	0.24	1.295252
149.0	0.109101D+01	0.213850D-02	0.11	1.190306
150.0	0.104295D+01	-0.842936D-04	-0.00	1.087741
151.0	0.994071D+00	-0.199744D-02	-0.12	0.988182
152.0	0.944556D+00	-0.361859D-02	-0.22	0.892198
153.0	0.894581D+00	-0.496570D-02	-0.32	0.800301
154.0	0.844332D+00	-0.605703D-02	-0.41	0.712933
155.0	0.793991D+00	-0.691[illegible]D-02	-0.50	0.630470
156.0	0.743746D+00	-0.754614D-02	-0.58	0.553215
157.0	0.693783D+00	-0.798103D-02	-0.66	0.481398
158.0	0.644287D+00	-0.823418D-02	-0.73	0.415174
159.0	0.595445D+00	-0.832398D-02	-0.80	0.354624
160.0	0.547439D+00	-0.826862D-02	-0.87	0.299757
161.0	0.500450D+00	-0.808602D-02	-0.93	0.250515
162.0	0.454656D+00	-0.779373D-02	-0.98	0.206773
163.0	0.410230D+00	-0.740889D-02	-1.03	0.168344
164.0	0.367342D+00	-0.694816D-02	-1.08	0.134989
165.0	0.326156D+00	-0.642762D-02	-1.13	0.106419
166.0	0.286828D+00	-0.586273D-02	-1.17	0.08230[illegible]
167.0	0.249509D+00	-0.526829D-02	-1.21	0.062282
168.0	0.214343D+00	-0.465832D-02	-1.25	0.045964
169.0	0.181465D+00	-0.404604D-02	-1.28	0.032936
170.0	0.151001D+00	-0.344385D-02	-1.31	0.022813
171.0	0.123071D+00	-0.286320D-02	-1.33	0.015155
172.0	0.977813D-01	-0.231462D-02	-1.36	0.009567
173.0	0.752303D-01	-0.180764D-02	-1.38	0.005663
174.0	0.555055D-01	-0.135076D-02	-1.39	0.003083
175.0	0.386837D-01	-0.951404D-03	-1.41	0.001497
176.0	0.248301D-01	-0.615922D-03	-1.42	0.000617
177.0	0.139988D-01	-0.349535D-03	-1.43	0.000196
178.0	0.623179D-02	-0.156328D-03	-1.44	0.000039
179.0	0.155947D-02	-0.392290D-04	-1.44	0.000002
180.0	0.107560D-11	0.369560D-11	73.77	0.000000

CIRCULAR OP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.166459D+00	-0.123404D+01	-97.68	1.550552
136.0	-0.155[illegible]4D+00	-0.129726D+01	-96.83	1.707025
137.0	-0.143549D+00	-0.136100D+01	-96.02	1.872928
138.0	-0.131041D+00	-0.142516D+01	-95.25	2.048264
139.0	-0.117871D+00	-0.148956D+01	-94.52	2.232985
140.0	-0.104071D+00	-0.155440D+01	-93.83	2.426992
141.0	-0.896763D-01	-0.161929D+01	-93.17	2.630130
142.0	-0.747248D-01	-0.168422D+01	-92.54	2.842190
143.0	-0.592565D-01	-0.174911D+01	-91.94	3.062905
144.0	-0.433136D-01	-0.181386D+01	-91.37	3.291950
145.0	-0.269403D-01	-0.187835D+01	-90.82	3.528943
146.0	-0.101828D-01	-0.194251D+01	-90.30	3.773440
147.0	0.691082D-02	-0.200621D+01	-89.80	4.024941
148.0	0.242911D-01	-0.206937D+01	-89.33	4.282887
149.0	0.419069D-01	-0.213188D+01	-88.87	4.546663
150.0	0.597059D-01	-0.219363D+01	-88.44	4.815599
151.0	0.776347D-01	-0.225454D+01	-88.03	5.088972
152.0	0.956389D-01	-0.231449D+01	-87.63	5.366006
153.0	0.113663D+00	-0.237339D+01	-87.26	5.645883
154.0	0.131653D+00	-0.243113D+01	-86.90	5.927736
155.0	0.149551D+00	-0.248763D+01	-86.56	6.210661
156.0	0.167302D+00	-0.254278D+01	-86.24	6.493717
157.0	0.184849D+00	-0.259649D+01	-85.93	6.775931
158.0	0.202138D+00	-0.264867D+01	-85.64	7.056306
159.0	0.219112D+00	-0.269922D+01	-85.36	7.333823
160.0	0.235718D+00	-0.274807D+01	-85.10	7.607448
161.0	0.251902D+00	-0.279512D+01	-84.85	7.876138
162.0	0.267610D+00	-0.284029D+01	-84.62	8.138846
163.0	0.282793D+00	-0.288350D+01	-84.40	8.394530
164.0	0.297399D+00	-0.292467D+01	-84.19	8.642155
165.0	0.311383D+00	-0.296374D+01	-84.00	8.880704
166.0	0.324696D+00	-0.300063D+01	-83.82	9.109180
167.0	0.337295D+00	-0.303527D+01	-83.66	9.326617
168.0	0.349139D+00	-0.306760D+01	-83.51	9.532083
169.0	0.360187D+00	-0.309757D+01	-83.37	9.724686
170.0	0.370403D+00	-0.312512D+01	-83.24	9.903581
171.0	0.379753D+00	-0.315020D+01	-83.1[illegible]	10.067977
172.0	0.388206D+00	-0.317276D+01	-83.02	10.217141
173.0	0.395732D+00	-0.319277D+01	-82.93	10.350400
174.0	0.402307D+00	-0.321019D+01	-82.86	10.467153
175.0	0.407908D+00	-0.322498D+01	-82.79	10.566866
176.0	0.412518D+00	-0.323711D+01	-82.74	10.649083
177.0	0.416119D+00	-0.324658D+01	-82.70	10.713427
178.0	0.418700D+00	-0.325335D+01	-82.67	10.759600
179.0	0.420252D+00	-0.325742D+01	-82.65	10.787390
180.0	0.420770D+00	-0.325878D+01	-82.64	10.796668

CIRCULAR PP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.159190D+01	0.741995D-01	2.67	2.539642
136.0	0.157064D+01	0.661554D-01	2.41	2.471297
137.0	0.154675D+01	0.585918D-01	2.17	2.395867
138.0	0.152029D+01	0.515030D-01	1.94	2.313943
139.0	0.149136D+01	0.448822D-01	1.72	2.226167
140.0	0.146004D+01	0.387215D-01	1.52	2.133228
141.0	0.142645D+01	0.330118D-01	1.33	2.035856
142.0	0.139070D+01	0.277428D-01	1.14	1.934807
143.0	0.135290D+01	0.229032D-01	0.97	1.830861
144.0	0.131319D+01	0.184809D-01	0.81	1.726808
145.0	0.127170D+01	0.144626D-01	0.65	1.617442
146.0	0.122859D+01	0.108344D-01	0.51	1.509550
147.0	0.118400D+01	0.758140D-02	0.37	1.401904
148.0	0.113808D+01	0.468816D-02	0.24	1.295252
149.0	0.109101D+01	0.213850D-02	0.11	1.190306
150.0	0.104295D+01	-0.842936D-04	-0.00	1.087741
151.0	0.994071D+00	-0.199744D-02	-0.12	0.988182
152.0	0.944556D+00	-0.361859D-02	-0.22	0.892198
153.0	0.894581D+00	-0.496570D-02	-0.32	0.800301
154.0	0.844332D+00	-0.605703D-02	-0.41	0.712933
155.0	0.793991D+00	-0.691[illegible]D-02	-0.50	0.630470
156.0	0.743746D+00	-0.754614D-02	-0.58	0.553215
157.0	0.693783D+00	-0.798103D-02	-0.66	0.481398
158.0	0.644287D+00	-0.823418D-02	-0.73	0.415174
159.0	0.595445D+00	-0.832398D-02	-0.80	0.354624
160.0	0.547439D+00	-0.826862D-02	-0.87	0.299757
161.0	0.500450D+00	-0.808602D-02	-0.93	0.250515
162.0	0.454656D+00	-0.779373D-02	-0.98	0.206773
163.0	0.410230D+00	-0.740889D-02	-1.03	0.168344
164.0	0.367342D+00	-0.694816D-02	-1.08	0.134989
165.0	0.326156D+00	-0.642762D-02	-1.13	0.106419
166.0	0.286828D+00	-0.586273D-02	-1.17	0.082304
167.0	0.249509D+00	-0.526829D-02	-1.21	0.062282
168.0	0.214343D+00	-0.465832D-02	-1.25	0.045964
169.0	0.181465D+00	-0.404604D-02	-1.28	0.032946
170.0	0.151001D+00	-0.344385D-02	-1.31	0.022813
171.0	0.123071D+00	-0.286320D-02	-1.33	0.015155
172.0	0.977813D-01	-0.231462D-02	-1.36	0.009567
173.0	0.752303D-01	-0.180764D-02	-1.38	0.005663
174.0	0.555055D-01	-0.135076D-02	-1.39	0.003083
175.0	0.386837D-01	-0.951404D-03	-1.41	0.001497
176.0	0.248301D-01	-0.615922D-03	-1.42	0.000617
177.0	0.139988D-01	-0.349535D-03	-1.43	0.000196
178.0	0.623179D-02	-0.156328D-03	-1.44	0.000039
179.0	0.155947D-02	-0.392290D-04	-1.44	0.000002
180.0	0.107560D-11	0.369560D-11	73.77	0.000000

CIRCULAR QP POLARIZATION KA= 3.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.166459D+00	-0.123404D+01	-97.68	1.550552
136.0	-0.155364D+00	-0.129726D+01	-96.83	1.707025
137.0	-0.143549D+00	-0.136100D+01	-96.02	1.872928
138.0	-0.131041D+00	-0.142516D+01	-95.25	2.048264
139.0	-0.117871D+00	-0.148966D+01	-94.52	2.232985
140.0	-0.104071D+00	-0.155440D+01	-93.83	2.426992
141.0	-0.896763D-01	-0.161929D+01	-93.17	2.630130
142.0	-0.747248D-01	-0.168422D+01	-92.54	2.842190
143.0	-0.592565D-01	-0.174911D+01	-91.94	3.062905
144.0	-0.433136D-01	-0.181386D+01	-91.37	3.291950
145.0	-0.269403D-01	-0.187835D+01	-90.82	3.528943
146.0	-0.101828D-01	-0.194251D+01	-90.30	3.773440
147.0	0.691082D-02	-0.200621D+01	-89.80	4.024941
148.0	0.242911D-01	-0.206937D+01	-89.33	4.282887
149.0	0.419069D-01	-0.213188D+01	-88.87	4.546663
150.0	0.597059D-01	-0.219363D+01	-88.44	4.815599
151.0	0.776347D-01	-0.225454D+01	-88.03	5.089[illegible]72
152.0	0.956389D-01	-0.231449D+01	-87.63	5.36[illegible]006
153.0	0.113663D+00	-0.237339D+01	-87.26	5.645883
154.0	0.131653D+00	-0.243113D+01	-86.90	5.927736
155.0	0.149551D+00	-0.248763D+01	-86.56	6.210661
156.0	0.167302D+00	-0.254278D+01	-86.24	6.493717
157.0	0.184849D+00	-0.259649D+01	-85.93	6.775931
158.0	0.202138D+00	-0.264867D+01	-85.64	7.056306
159.0	0.219112D+00	-0.269922D+01	-85.36	7.333823
160.0	0.235718D+00	-0.274807D+01	-85.10	7.607448
161.0	0.251902D+00	-0.279512D+01	-84.85	7.876138
162.0	0.267610D+00	-0.284029D+01	-84.62	8.138846
163.0	0.282793D+00	-0.288350D+01	-84.40	8.394530
164.0	0.297399D+00	-0.292467D+01	-84.19	8.642155
165.0	0.311383D+00	-0.296374D+01	-84.00	8.880704
166.0	0.324696D+00	-0.300063D+01	-83.82	9.109180
167.0	0.337295D+00	-0.303527D+01	-83.66	9.326617
168.0	0.349139D+00	-0.306760D+01	-83.51	9.532083
169.0	0.360187D+00	-0.309757D+01	-83.37	9.724686
170.0	0.370403D+00	-0.312512D+01	-83.24	9.903581
171.0	0.379753D+00	-0.315020D+01	-83.13	10.067977
172.0	0.388206D+00	-0.317276D+01	-83.02	10.217141
173.0	0.395732D+00	-0.319277D+01	-82.93	10.350400
174.0	0.402307D+00	-0.321019D+01	-82.86	10.467153
175.0	0.407908D+00	-0.322498D+01	-82.79	10.566866
176.0	0.412518D+00	-0.323711D+01	-82.73	10.649083
177.0	0.416119D+00	-0.324658D+01	-82.70	10.713427
178.0	0.418700D+00	-0.325335D+01	-82.67	10.759600
179.0	0.420252D+00	-0.325742D+01	-82.65	10.787390
180.0	0.420770D+00	-0.325878D+01	-82.64	10.796668

CIRCULAR PP POLARIZATION KA= 4.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.672984D-01	-0.883629D+00	-85.64	0.785329
1.0	0.672690D-01	-0.883992D+00	-85.65	0.785965
2.0	0.671003D-01	-0.885061D+00	-85.66	0.787871
3.0	0.668506D-01	-0.886888D+00	-85.69	0.791038
4.0	0.664971D-01	-0.889401D+00	-85.72	0.795456
5.0	0.660359D-01	-0.892605D+00	-85.77	0.801104
6.0	0.654619D-01	-0.896479D+00	-85.83	0.807960
7.0	0.647689D-01	-0.900999D+00	-85.90	0.815993
8.0	0.639498D-01	-0.906135D+00	-85.96	0.825169
9.0	0.629959D-01	-0.911854D+00	-86.05	0.835446
10.0	0.618976D-01	-0.918119D+00	-86.14	0.846773
11.0	0.606443D-01	-0.924889D+00	-86.25	0.859097
12.0	0.592260D-01	-0.932119D+00	-86.36	0.872352
13.0	0.576236D-01	-0.939760D+00	-86.49	0.886469
14.0	0.558288D-01	-0.947761D+00	-86.63	0.901369
15.0	0.538243D-01	-0.956068D+00	-86.78	0.916963
16.0	0.515934D-01	-0.964622D+00	-86.94	0.933158
17.0	0.491185D-01	-0.973363D+00	-87.11	0.949849
18.0	0.463808D-01	-0.982229D+00	-87.30	0.966925
19.0	0.433604D-01	-0.991154D+00	-87.50	0.984267
20.0	0.400362D-01	-0.100007D+01	-87.71	1.001747
21.0	0.363862D-01	-0.100891D+01	-87.93	1.019231
22.0	0.323876D-01	-0.101761D+01	-88.18	1.036579
23.0	0.280163D-01	-0.102609D+01	-88.44	1.053646
24.0	0.232475D-01	-0.103428D+01	-88.71	1.070280
25.0	0.180557D-01	-0.104211D+01	-89.01	1.086328
26.0	0.124147D-01	-0.104951D+01	-89.32	1.101635
27.0	0.629756D-02	-0.105641D+01	-89.66	1.116043
28.0	-0.323116D-03	-0.106273D+01	-90.02	1.129397
29.0	-0.747503D-02	-0.106841D+01	-90.40	1.141546
30.0	-0.151862D-01	-0.107336D+01	-90.81	1.152340
31.0	-0.234846D-01	-0.107754D+01	-91.25	1.161639
32.0	-0.323982D-01	-0.108086D+01	-91.72	1.169310
33.0	-0.419549D-01	-0.108327D+01	-92.22	1.175232
34.0	-0.521820D-01	-0.108470D+01	-92.75	1.179295
35.0	-0.631061D-01	-0.108509D+01	-93.33	1.181407
36.0	-0.747532D-01	-0.108439D+01	-93.93	1.181490
37.0	-0.871479D-01	-0.108254D+01	-94.60	1.179487
38.0	-0.100314D+00	-0.107949D+01	-95.31	1.175362
39.0	-0.114273D+00	-0.107520D+01	-96.07	1.169103
40.0	-0.129046D+00	-0.106961D+01	-96.88	1.160720
41.0	-0.144650D+00	-0.106270D+01	-97.75	1.150251
42.0	-0.161102D+00	-0.105442D+01	-98.69	1.137760
43.0	-0.178415D+00	-0.104475D+01	-99.69	1.123339
44.0	-0.196598D+00	-0.103366D+01	-100.77	1.107110
45.0	-0.215660D+00	-0.102113D+01	-101.93	1.089220

CIRCULAR OP POLARIZATION KA= 4.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.223463D-10	0.334115D-11	8.50	0.000000
1.0	-0.131531D-03	0.137652D-03	133.70	0.000000
2.0	-0.525804D-03	0.549416D-03	133.74	0.000001
3.0	-0.118183D-02	0.123169D-02	133.82	0.000003
4.0	-0.209796D-02	0.217849D-02	133.92	0.000009
5.0	-0.327186D-02	0.338150D-02	134.06	0.000022
6.0	-0.470054D-02	0.483012D-02	134.22	0.000045
7.0	-0.638030D-02	0.651154D-02	134.42	0.000083
8.0	-0.830673D-02	0.841079D-02	134.64	0.000140
9.0	-0.104747D-01	0.105109D-01	134.90	0.000220
10.0	-0.128784D-01	0.127929D-01	135.19	0.000330
11.0	-0.155111D-01	0.152361D-01	135.51	0.000473
12.0	-0.183656D-01	0.178182D-01	135.87	0.000655
13.0	-0.214335D-01	0.205152D-01	136.25	0.000880
14.0	-0.247058D-01	0.233018D-01	136.68	0.001153
15.0	-0.281728D-01	0.261516D-01	137.13	0.001478
16.0	-0.318237D-01	0.290371D-01	137.62	0.001856
17.0	-0.356470D-01	0.319300D-01	138.15	0.002290
18.0	-0.396302D-01	0.348014D-01	138.71	0.002782
19.0	-0.437599D-01	0.376219D-01	139.31	0.003330
20.0	-0.480220D-01	0.403619D-01	139.95	0.003935
21.0	-0.524012D-01	0.429918D-01	140.63	0.004594
22.0	-0.568816D-01	0.454821D-01	141.35	0.005304
23.0	-0.614461D-01	0.478040D-01	142.12	0.006061
24.0	-0.660770D-01	0.499289D-01	142.92	0.006859
25.0	-0.707555D-01	0.518294D-01	143.78	0.007693
26.0	-0.754621D-01	0.534791D-01	144.68	0.008555
27.0	-0.801764D-01	0.548527D-01	145.62	0.009437
28.0	-0.848773D-01	0.559265D-01	146.62	0.010332
29.0	-0.895429D-01	0.566786D-01	147.67	0.011230
30.0	-0.941507D-01	0.570887D-01	148.77	0.012123
31.0	-0.986775D-01	0.571389D-01	149.93	0.013002
32.0	-0.103100D+00	0.568133D-01	151.14	0.013857
33.0	-0.107393D+00	0.560984D-01	152.42	0.014680
34.0	-0.111532D+00	0.549836D-01	153.76	0.015463
35.0	-0.115494D+00	0.534607D-01	155.16	0.016197
36.0	-0.119251D+00	0.515245D-01	156.63	0.016876
37.0	-0.122781D+00	0.491727D-01	158.17	0.017493
38.0	-0.126056D+00	0.464062D-01	159.79	0.018044
39.0	-0.129053D+00	0.432289D-01	161.48	0.018523
40.0	-0.131746D+00	0.396481D-01	163.25	0.018929
41.0	-0.134112D+00	0.356742D-01	165.10	0.019259
42.0	-0.136126D+00	0.313211D-01	167.04	0.019511
43.0	-0.137766D+00	0.266060D-01	169.07	0.019687
44.0	-0.139009D+00	0.215493D-01	171.19	0.019788
45.0	-0.139835D+00	0.161748D-01	173.40	0.019815

CIRCULAR PP POLARIZATION KA= 4.000

THETA	REAL	IMAG	PHASE	RCS
45.0	-0.215600D+00	-0.102113D+01	-101.93	1.089220
46.0	-0.235604D+00	-0.100714D+01	-103.17	1.069848
47.0	-0.256430D+00	-0.991687D+00	-104.50	1.049200
48.0	-0.278135D+00	-0.974755D+00	-105.93	1.027506
49.0	-0.300710D+00	-0.956346D+00	-107.46	1.005024
50.0	-0.324142D+00	-0.936464D+00	-109.09	0.982034
51.0	-0.348411D+00	-0.915120D+00	-110.84	0.958836
52.0	-0.373505D+00	-0.892326D+00	-112.71	0.935750
53.0	-0.399382D+00	-0.868103D+00	-114.71	0.913109
54.0	-0.426016D+00	-0.842476D+00	-116.82	0.891256
55.0	-0.453368D+00	-0.815475D+00	-119.07	0.870541
56.0	-0.481391D+00	-0.787134D+00	-121.45	0.851317
57.0	-0.510034D+00	-0.757494D+00	-123.95	0.833933
58.0	-0.539241D+00	-0.726601D+00	-126.58	0.818730
59.0	-0.568948D+00	-0.694504D+00	-129.32	0.806037
60.0	-0.599084D+00	-0.661257D+00	-132.16	0.796161
61.0	-0.629573D+00	-0.626919D+00	-135.12	0.789389
62.0	-0.660332D+00	-0.591553D+00	-138.14	0.785974
63.0	-0.691272D+00	-0.555228D+00	-141.23	0.786135
64.0	-0.722297D+00	-0.518012D+00	-144.35	0.790050
65.0	-0.753306D+00	-0.479982D+00	-147.50	0.797852
66.0	-0.784189D+00	-0.441216D+00	-150.64	0.809624
67.0	-0.814834D+00	-0.401793D+00	-153.75	0.825391
68.0	-0.845120D+00	-0.361798D+00	-156.82	0.845126
69.0	-0.874923D+00	-0.321317D+00	-159.83	0.868735
70.0	-0.904112D+00	-0.280439D+00	-162.77	0.896065
71.0	-0.932554D+00	-0.239253D+00	-165.61	0.926698
72.0	-0.960108D+00	-0.197852D+00	-168.36	0.960953
73.0	-0.986632D+00	-0.156329D+00	-171.00	0.997882
74.0	-0.101198D+01	-0.114776D+00	-173.53	1.037280
75.0	-0.103601D+01	-0.732895D-01	-175.95	1.078681
76.0	-0.105856D+01	-0.319626D-01	-178.27	1.121564
77.0	-0.107948D+01	0.911003D-02	179.52	1.165361
78.0	-0.109862D+01	0.498347D-01	177.40	1.209459
79.0	-0.111584D+01	0.901185D-01	175.38	1.253213
80.0	-0.113097D+01	0.129870D+00	173.45	1.295950
81.0	-0.114386D+01	0.168999D+00	171.60	1.336979
82.0	-0.115438D+01	0.207417D+00	169.81	1.375604
83.0	-0.116236D+01	0.245039D+00	168.10	1.411135
84.0	-0.116769D+01	0.281781D+00	166.43	1.442897
85.0	-0.117021D+01	0.317563D+00	164.82	1.470245
86.0	-0.116981D+01	0.352307D+00	163.24	1.492575
87.0	-0.116636D+01	0.385950D+00	161.69	1.509339
88.0	-0.115974D+01	0.418391D+00	160.16	1.520052
89.0	-0.114986D+01	0.449594D+00	158.64	1.524312
90.0	-0.113662D+01	0.479487D+00	157.13	1.521803

CIRCULAR OP POLARIZATION KA= 4.000

THETA	REAL	IMAG	PHASE	RCS
45.0	-0.139835D+00	0.161748D-01	173.40	0.019815
46.0	-0.140222D+00	0.105095D-01	175.71	0.019773
47.0	-0.140153D+00	0.458356D-02	178.13	0.019664
48.0	-0.139610D+00	-0.156972D-02	-179.36	0.019493
49.0	-0.138577D+00	-0.791410D-02	-176.73	0.019266
50.0	-0.137041D+00	-0.144105D-01	-174.00	0.018988
51.0	-0.134989D+00	-0.210172D-01	-171.15	0.018664
52.0	-0.132412D+00	-0.276899D-01	-168.19	0.018300
53.0	-0.129302D+00	-0.343820D-01	-165.11	0.017901
54.0	-0.125654D+00	-0.410450D-01	-161.91	0.017474
55.0	-0.121464D+00	-0.476282D-01	-159.59	0.017022
56.0	-0.116732D+00	-0.540797D-01	-155.14	0.016551
57.0	-0.111460D+00	-0.603458D-01	-151.57	0.016065
58.0	-0.105654D+00	-0.663723D-01	-147.86	0.015568
59.0	-0.993217D-01	-0.721039D-01	-144.02	0.015064
60.0	-0.924732D-01	-0.774850D-01	-140.04	0.014555
61.0	-0.851226D-01	-0.824599D-01	-135.91	0.014045
62.0	-0.772868D-01	-0.869732D-01	-131.63	0.013538
63.0	-0.689854D-01	-0.909702D-01	-127.17	0.013035
64.0	-0.602413D-01	-0.943971D-01	-122.54	0.012540
65.0	-0.510803D-01	-0.972015D-01	-117.72	0.012057
66.0	-0.415312D-01	-0.993327D-01	-112.69	0.011592
67.0	-0.316257D-01	-0.100742D+00	-107.43	0.011149
68.0	-0.213983D-01	-0.101384D+00	-101.92	0.010737
69.0	-0.108864D-01	-0.101215D+00	-96.14	0.010363
70.0	-0.129932D-03	-0.100195D+00	-90.07	0.010039
71.0	0.106287D-01	-0.982883D-01	-83.71	0.009778
72.0	0.219446D-01	-0.954624D-01	-77.05	0.009595
73.0	0.331707D-01	-0.916896D-01	-70.11	0.009507
74.0	0.444582D-01	-0.869468D-01	-62.92	0.009536
75.0	0.557563D-01	-0.812159D-01	-55.53	0.009705
76.0	0.670125D-01	-0.744843D-01	-48.02	0.010039
77.0	0.781733D-01	-0.667452D-01	-40.49	0.010566
78.0	0.891840D-01	-0.579974D-01	-33.04	0.011317
79.0	0.999892D-01	-0.482463D-01	-25.76	0.012326
80.0	0.110532D+00	-0.375036D-01	-18.74	0.013624
81.0	0.120759D+00	-0.257877D-01	-12.05	0.015248
82.0	0.130612D+00	-0.131240D-01	-5.74	0.017232
83.0	0.140036D+00	0.455252D-03	0.19	0.019610
84.0	0.148977D+00	0.149105D-01	5.72	0.022416
85.0	0.157380D+00	0.301950D-01	10.86	0.025680
86.0	0.165194D+00	0.462548D-01	15.64	0.029429
87.0	0.172369D+00	0.630283D-01	20.09	0.033684
88.0	0.178857D+00	0.804466D-01	24.22	0.038462
89.0	0.184612D+00	0.984344D-01	28.07	0.043771
90.0	0.189592D+00	0.116908D+00	31.66	0.049613

CIRCULAR PP POLARIZATION KA= 4.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.113662D+01	0.479487D+00	157.13	1.52 03
91.0	-0.111993D+01	0.508012D+00	155.60	1.512313
92.0	-0.109972D+01	0.535116D+00	154.05	1.495736
93.0	-0.107594D+01	0.560752D+00	152.47	1.472087
94.0	-0.104853D+01	0.584875D+00	150.85	1.441503
95.0	-0.101748D+01	0.607447D+00	149.16	1.404249
96.0	-0.982747D+00	0.628435D+00	147.40	1.360721
97.0	-0.944345D+00	0.647812D+00	145.55	1.311447
98.0	-0.902285D+00	0.665554D+00	143.59	1.257082
99.0	-0.856609D+00	0.681646D+00	141.49	1.198406
100.0	-0.807339D+00	0.696075D+00	139.23	1.136316
101.0	-0.754567D+00	0.708834D+00	136.79	1.071817
102.0	-0.698369D+00	0.719924D+00	134.13	1.006009
103.0	-0.638847D+00	0.729348D+00	131.22	0.940074
104.0	-0.576123D+00	0.737116D+00	128.01	0.875258
105.0	-0.510335D+00	0.743244D+00	124.47	0.812853
106.0	-0.441640D+00	0.747751D+00	120.57	0.754176
107.0	-0.370212D+00	0.750661D+00	116.25	0.700550
108.0	-0.296245D+00	0.752006D+00	111.50	0.653275
109.0	-0.219947D+00	0.751819D+00	106.31	0.613609
110.0	-0.141545D+00	0.750139D+00	100.69	0.582744
111.0	-0.612789D-01	0.747009D+00	94.69	0.561777
112.0	0.205934D-01	0.742475D+00	88.41	0.551693
113.0	0.103802D+00	0.736589D+00	81.98	0.553338
114.0	0.188032D+00	0.729403D+00	75.54	0.567397
115.0	0.273080D+00	0.720976D+00	69.26	0.594380
116.0	0.358549D+00	0.711368D+00	63.25	0.634602
117.0	0.444154D+00	0.700641D+00	57.63	0.688171
118.0	0.529573D+00	0.688860D+00	52.45	0.754976
119.0	0.614476D+00	0.676092D+00	47.73	0.834682
120.0	0.698531D+00	0.662407D+00	43.48	0.926728
121.0	0.781401D+00	0.647873D+00	39.66	1.030327
122.0	0.862750D+00	0.632563D+00	36.25	1.144473
23.0	0.942241D+00	0.616547D+00	33.20	1.267949
24.0	0.101954D+01	0.599899D+00	30.47	1.399346
25.0	0.109433D+01	0.582690D+00	28.03	1.537075
26.0	0.116627D+01	0.564993D+00	25.85	1.679398
27.0	0.123506D+01	0.546880D+00	23.88	1.824445
128.0	0.130039D+01	0.528420D+00	22.11	1.970249
129.0	0.136198D+01	0.509684D+00	20.52	2.114779
130.0	0.141956D+01	0.490740D+00	19.07	2.255967
131.0	0.147285D+01	0.471655D+00	17.76	2.391753
132.0	0.152163D+01	0.452494D+00	16.56	2.520113
133.0	0.156567D+01	0.433318D+00	15.47	2.639099
134.0	0.160478D+01	0.414189D+00	14.47	2.746875
135.0	0.163878D+01	0.395164D+00	13.56	2.842751

CIRCULAR OP POLARIZATION KA= 4.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.189592D+00	0.116908D+00	31.66	0.049613
91.0	0.193757D+00	0.135777D+00	35.02	0.055977
92.0	0.197070D+00	0.154944D+00	38.18	0.062844
93.0	0.199501D+00	0.174306D+00	41.14	0.070183
94.0	0.201019D+00	0.193751D+00	43.95	0.077948
95.0	0.201603D+00	0.213164D+00	46.60	0.086083
96.0	0.201232D+00	0.232423D+00	49.11	0.094515
97.0	0.199893D+00	0.251398D+00	51.51	0.103158
98.0	0.197575D+00	0.269957D+00	53.80	0.111913
99.0	0.194275D+00	0.287963D+00	55.99	0.120665
100.0	0.189993D+00	0.305274D+00	58.10	0.129289
101.0	0.184738D+00	0.321743D+00	60.14	0.137647
102.0	0.178520D+00	0.337222D+00	62.10	0.145588
103.0	0.171359D+00	0.351561D+00	64.01	0.152959
104.0	0.163277D+00	0.364604D+00	65.88	0.159596
105.0	0.154304D+00	0.376199D+00	67.70	0.165335
106.0	0.144476D+00	0.386188D+00	69.49	0.170015
107.0	0.133832D+00	0.394417D+00	71.26	0.173476
108.0	0.122419D+00	0.400731D+00	73.01	0.175572
109.0	0.110287D+00	0.404977D+00	74.77	0.176169
110.0	0.974946D-01	0.407001D+00	76.53	0.175155
111.0	0.841015D-01	0.406657D+00	78.32	0.172443
112.0	0.701739D-01	0.403798D+00	80.14	0.167978
113.0	0.557821D-01	0.398284D+00	82.03	0.161742
114.0	0.410003D-01	0.389979D+00	84.00	0.153765
115.0	0.259062D-01	0.378752D+00	86.09	0.144124
116.0	0.105809D-01	0.364480D+00	88.34	0.132958
117.0	-0.489165D-02	0.347045D+00	90.81	0.120464
118.0	-0.204254D-01	0.326340D+00	93.58	0.106915
119.0	-0.359321D-01	0.302263D+00	96.78	0.092654
120.0	-0.513225D-01	0.274725D+00	100.58	0.078108
121.0	-0.665061D-01	0.243642D+00	105.27	0.063785
122.0	-0.813923D-01	0.208946D+00	111.28	0.050283
123.0	-0.958907D-01	0.170576D+00	119.34	0.038291
124.0	-0.109911D+00	0.128484D+00	130.55	0.028589
125.0	-0.123366D+00	0.826344D-01	146.18	0.022048
126.0	-0.136169D+00	0.330032D-01	166.38	0.019631
127.0	-0.148235D+00	-0.204198D-01	-172.16	0.022391
128.0	-0.159483D+00	-0.776318D-01	-154..	0.031462
129.0	-0.169837D+00	-0.138616D+00	-140.78	0.048059
130.0	-0.179222D+00	-0.203343D+00	-131.39	0.073469
131.0	-0.187569D+00	-0.271768D+00	-124.61	0.109040
132.0	-0.194816D+00	-0.343822D+00	-119.54	0.156174
133.0	-0.200904D+00	-0.419461D+00	-115.59	0.216310
134.0	-0.205780D+00	-0.498569D+00	-112.43	0.290917
135.0	-0.209399D+00	-0.581854D+00	-109.82	0.381471

CIRCULAR PP POLARIZATION KA= 4.000

THETA	REAL	IMAG	PHASE	RCS
135.0	0.163878D+01	0.395164D+00	13.56	2.841751
136.0	0.166752D+01	0.376299D+00	12.72	2.922213
137.0	0.169087D+01	0.357644D+00	11.94	2.986953
138.0	0.170874D+01	0.339250D+00	11.23	3.034896
139.0	0.172107D+01	0.321162D+00	10.57	3.065218
140.0	0.172780D+01	0.303422D+00	9.96	3.077365
141.0	0.172894D+01	0.286070D+00	9.40	3.071062
142.0	0.172450D+01	0.269142D+00	8.87	3.046322
143.0	0.171453D+01	0.252669D+00	8.38	3.003442
144.0	0.169911D+01	0.236681D+00	7.93	2.943000
145.0	0.167837D+01	0.221203D+00	7.51	2.865842
146.0	0.165243D+01	0.206256D+00	7.11	2.773067
147.0	0.162148D+01	0.191859D+00	6.75	2.666004
148.0	0.158571D+01	0.178027D+00	6.41	2.546184
149.0	0.154537D+01	0.164770D+00	6.09	2.415310
150.0	0.150070D+01	0.152098D+00	5.79	2.275224
151.0	0.145199D+01	0.140016D+00	5.51	2.127866
152.0	0.139954D+01	0.128525D+00	5.25	1.975239
153.0	0.134370D+01	0.117626D+00	5.00	1.819370
154.0	0.128481D+01	0.107315D+00	4.77	1.662263
155.0	0.122325D+01	0.975854D-01	4.56	1.505867
156.0	0.115940D+01	0.884302D-01	4.36	1.352037
157.0	0.109367D+01	0.798386D-01	4.18	1.202498
158.0	0.102648D+01	0.717986D-01	4.00	1.056815
159.0	0.958245D+00	0.642964D-01	3.84	0.922367
160.0	0.889402D+00	0.573164D-01	3.69	0.794321
161.0	0.820390D+00	0.508422D-01	3.55	0.675625
162.0	0.751647D+00	0.448561D-01	3.42	0.566985
163.0	0.683611D+00	0.393395D-01	3.29	0.468871
164.0	0.616716D+00	0.342735D-01	3.18	0.381513
165.0	0.551389D+00	0.296387D-01	3.08	0.304909
166.0	0.488049D+00	0.254156D-01	2.98	0.238838
167.0	0.427102D+00	0.215847D-01	2.89	0.182882
168.0	0.368938D+00	0.181269D-01	2.81	0.136444
169.0	0.313932D+00	0.150237D-01	2.74	0.098779
170.0	0.262437D+00	0.122570D-01	2.67	0.069023
171.0	0.214784D+00	0.980990D-02	2.62	0.046228
172.0	0.171281D+00	0.766642D-02	2.56	0.029396
173.0	0.132209D+00	0.581185D-02	2.52	0.017513
174.0	0.978204D-01	0.423282D-02	2.48	0.009587
175.0	0.683368D-01	0.291748D-02	2.44	0.004678
176.0	0.439490D-01	0.185561D-02	2.42	0.001935
177.0	0.248151D-01	0.103868D-02	2.40	0.000617
178.0	0.110588D-01	0.460014D-03	2.38	0.000123
179.0	0.276918D-02	0.114759D-03	2.37	0.000008
180.0	0.291099D-09	0.426105D-10	8.37	0.000000

CIRCULAR OP POLARIZATION KA= 4.000

THETA	REAL	IMAG	PHASE	RCS
135.0	-0.209399D+00	-0.581054D+00	-109.82	0.381471
136.0	-0.211722D+00	-0.666799D+00	-107.62	0.489447
137.0	-0.212717D+00	-0.755674D+00	-105.72	0.616291
138.0	-0.212360D+00	-0.847535D+00	-104.07	0.763412
139.0	-0.210633D+00	-0.942224D+00	-102.60	0.932152
140.0	-0.207528D+00	-0.103957D+01	-101.29	1.123774
141.0	-0.203045D+00	-0.113939D+01	-100.10	1.339435
142.0	-0.197190D+00	-0.124148D+01	-99.03	1.580168
143.0	-0.189980D+00	-0.134565D+01	-98.04	1.846862
144.0	-0.181437D+00	-0.145160D+01	-97.12	2.140239
145.0	-0.171594D+00	-0.155929D+01	-96.28	2.460835
146.0	-0.160491D+00	-0.166830D+01	-95.49	2.808984
147.0	-0.148175D+00	-0.177844D+01	-94.76	3.184796
148.0	-0.134704D+00	-0.188944D+01	-94.08	3.588146
149.0	-0.120138D+00	-0.200106D+01	-93.44	4.018660
150.0	-0.104550D+00	-0.211300D+01	-92.83	4.475702
151.0	-0.880152D-01	-0.222500D+01	-92.27	4.958365
152.0	-0.706177D-01	-0.233677D+01	-91.73	5.465470
153.0	-0.524465D-01	-0.244802D+01	-91.23	5.995555
154.0	-0.335964D-01	-0.255847D+01	-90.75	6.546886
155.0	-0.141668D-01	-0.266782D+01	-90.30	7.117451
156.0	0.573841D-02	-0.277578D+01	-89.88	7.704973
157.0	0.260118D-01	-0.288206D+01	-89.48	8.306919
158.0	0.465428D-01	-0.298636D+01	-89.11	8.920516
159.0	0.672187D-01	-0.308841D+01	-88.75	9.542765
160.0	0.879248D-01	-0.318790D+01	-88.42	10.170463
161.0	0.108546D+00	-0.328458D+01	-88.11	10.800231
162.0	0.128965D+00	-0.337815D+01	-87.81	11.428535
163.0	0.149069D+00	-0.346836D+01	-87.54	12.051720
164.0	0.168742D+00	-0.355494D+01	-87.28	12.666038
165.0	0.187872D+00	-0.363764D+01	-87.04	13.267687
166.0	0.206350D+00	-0.371622D+01	-86.82	13.852841
167.0	0.224069D+00	-0.379045D+01	-86.62	14.417690
168.0	0.240927D+00	-0.386011D+01	-86.43	14.958478
169.0	0.256826D+00	-0.392499D+01	-86.26	15.471536
170.0	0.271674D+00	-0.398491D+01	-86.10	15.953325
171.0	0.285388D+00	-0.403968D+01	-85.96	16.400471
172.0	0.297877D+00	-0.408910D+01	-85.83	16.809796
173.0	0.309079D+00	-0.413318D+01	-85.72	17.178359
174.0	0.318924D+00	-0.417158D+01	-85.63	17.503483
175.0	0.327355D+00	-0.420424D+01	-85.55	17.782784
176.0	0.334321D+00	-0.423113D+01	-85.48	18.014201
177.0	0.339783D+00	-0.425212D+01	-85.43	18.196012
178.0	0.343707D+00	-0.426717D+01	-85.39	18.326861
179.0	0.346071D+00	-0.427621D+01	-85.37	18.405765
180.0	0.346861D+00	-0.427923D+01	-85.37	18.432133

CIRCULAR PP POLARIZATION KA= 5.000

THETA	REAL	IMAG	PHASE	RCS
0.0	0.934424D+00	0.543773D+00	30.20	1.168837
1.0	0.934396D+00	0.543821D+00	30.20	1.168837
2.0	0.934312D+00	0.543961D+00	30.21	1.168833
3.0	0.934174D+00	0.544182D+00	30.22	1.168814
4.0	0.933980D+00	0.544466D+00	30.24	1.168762
5.0	0.933733D+00	0.544787D+00	30.26	1.168651
6.0	0.933433D+00	0.545115D+00	30.28	1.168448
7.0	0.933082D+00	0.545411D+00	30.31	1.168114
8.0	0.932681D+00	0.545629D+00	30.33	1.167604
9.0	0.932232D+00	0.545720D+00	30.34	1.166866
10.0	0.931737D+00	0.545627D+00	30.35	1.165843
11.0	0.931200D+00	0.545289D+00	30.35	1.164474
12.0	0.930623D+00	0.544641D+00	30.34	1.162693
13.0	0.930010D+00	0.543612D+00	30.31	1.160433
14.0	0.929365D+00	0.542129D+00	30.26	1.157624
15.0	0.928692D+00	0.540117D+00	30.18	1.154195
16.0	0.927997D+00	0.537496D+00	30.08	1.150080
17.0	0.927283D+00	0.534187D+00	29.95	1.145210
18.0	0.926557D+00	0.530110D+00	29.78	1.139525
19.0	0.925823D+00	0.525183D+00	29.56	1.132970
20.0	0.925093D+00	0.519326D+00	29.31	1.125497
21.0	0.924367D+00	0.512460D+00	29.00	1.117070
22.0	0.923654D+00	0.504508D+00	28.64	1.107665
23.0	0.922960D+00	0.495394D+00	28.22	1.097271
24.0	0.922292D+00	0.485046D+00	27.74	1.085894
25.0	0.921655D+00	0.473403D+00	27.19	1.073556
26.0	0.921055D+00	0.460396D+00	26.56	1.060308
27.0	0.920498D+00	0.445972D+00	25.85	1.046206
28.0	0.919986D+00	0.430078D+00	25.06	1.031341
29.0	0.919524D+00	0.412671D+00	24.17	1.015821
30.0	0.919112D+00	0.393714D+00	23.19	0.999778
31.0	0.918751D+00	0.373178D+00	22.11	0.983366
32.0	0.918439D+00	0.351043D+00	20.92	0.966762
33.0	0.918172D+00	0.327297D+00	19.62	0.950163
34.0	0.917943D+00	0.301937D+00	18.21	0.933785
35.0	0.917744D+00	0.274969D+00	16.68	0.917862
36.0	0.917562D+00	0.246410D+00	15.03	0.902637
37.0	0.917381D+00	0.216286D+00	13.27	0.888367
38.0	0.917182D+00	0.184635D+00	11.38	0.875313
39.0	0.916943D+00	0.151503D+00	9.38	0.863737
40.0	0.916635D+00	0.116947D+00	7.27	0.853896
41.0	0.916227D+00	0.810355D-01	5.05	0.846038
42.0	0.915682D+00	0.438450D-01	2.74	0.840396
43.0	0.914959D+00	0.546360D-02	0.34	0.837180
44.0	0.914012D+00	-0.340114D-01	-2.13	0.836574
45.0	0.912788D+00	-0.744730D-01	-4.66	0.838729

CIRCULAR OP POLARIZATION KA= 5.000

THETA	REAL	IMAG	PHASE	RCS
0.0	0.185398D-11	-0.284418D-11	-56.90	0.000000
1.0	0.142189D-03	-0.175871D-03	-51.04	0.000000
2.0	0.568157D-03	-0.701391D-03	-50.99	0.000001
3.0	0.127607D-02	-0.157026D-02	-50.90	0.000004
4.0	0.226286D-02	-0.277204D-02	-50.77	0.000013
5.0	0.352420D-02	-0.429226D-02	-50.61	0.000031
6.0	0.505454D-02	-0.611256D-02	-50.41	0.000063
7.0	0.684701D-02	-0.821086D-02	-50.18	0.000114
8.0	0.889343D-02	-0.105616D-01	-49.90	0.000191
9.0	0.111843D-01	-0.131359D-01	-49.59	0.000298
10.0	0.137088D-01	-0.159021D-01	-49.24	0.000441
11.0	0.164546D-01	-0.188256D-01	-48.84	0.000625
12.0	0.194081D-01	-0.218697D-01	-48.41	0.000855
13.0	0.225541D-01	-0.249957D-01	-47.94	0.001133
14.0	0.258761D-01	-0.281634D-01	-47.42	0.001463
15.0	0.293561D-01	-0.313313D-01	-46.85	0.001843
16.0	0.329745D-01	-0.344572D-01	-46.26	0.002275
17.0	0.367104D-01	-0.374988D-01	-45.67	0.002754
18.0	0.405413D-01	-0.404138D-01	-44.91	0.003277
19.0	0.444434D-01	-0.431604D-01	-44.16	0.003838
20.0	0.483916D-01	-0.456982D-01	-43.36	0.004430
21.0	0.523587D-01	-0.479879D-01	-42.51	0.005044
22.0	0.563176D-01	-0.499923D-01	-41.59	0.005671
23.0	0.602389D-01	-0.516767D-01	-40.63	0.006299
24.0	0.640927D-01	-0.530089D-01	-39.59	0.006918
25.0	0.678478D-01	-0.539600D-01	-38.50	0.007515
26.0	0.714724D-01	-0.545047D-01	-37.33	0.008079
27.0	0.749341D-01	-0.546216D-01	-36.09	0.008599
28.0	0.781998D-01	-0.542932D-01	-34.77	0.009063
29.0	0.812365D-01	-0.535067D-01	-33.37	0.009462
30.0	0.840107D-01	-0.522539D-01	-31.88	0.009788
31.0	0.864895D-01	-0.505317D-01	-30.30	0.010034
32.0	0.886401D-01	-0.483418D-01	-28.61	0.010194
33.0	0.904305D-01	-0.456912D-01	-26.81	0.010265
34.0	0.918298D-01	-0.425922D-01	-24.88	0.010247
35.0	0.928082D-01	-0.390621D-01	-22.83	0.010139
36.0	0.933374D-01	-0.351237D-01	-20.62	0.009946
37.0	0.933910D-01	-0.308048D-01	-18.26	0.009671
38.0	0.929448D-01	-0.261362D-01	-15.71	0.009322
39.0	0.919769D-01	-0.211617D-01	-12.96	0.008908
40.0	0.904682D-01	-0.159173D-01	-9.98	0.008438
41.0	0.884026D-01	-0.104516D-01	-6.74	0.007924
42.0	0.857675D-01	-0.481504D-02	-3.21	0.007379
43.0	0.825536D-01	0.938400D-03	0.65	0.006816
44.0	0.787556D-01	0.675159D-02	4.90	0.006248
45.0	0.743723D-01	0.125648D-01	9.59	0.005689

CIRCULAR PP POLARIZATION KA= 5.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.912788D+00	-0.744730D-01	-4.66	0.838729
46.0	0.911232D+00	-0.115805D+00	-7.24	0.843754
47.0	0.909280D+00	-0.157884D+00	-9.85	0.851717
48.0	0.906865D+00	-0.200576D+00	-12.47	0.862635
49.0	0.903915D+00	-0.243741D+00	-15.09	0.876472
50.0	0.900351D+00	-0.287232D+00	-17.69	0.893134
51.0	0.896092D+00	-0.330895D+00	-20.27	0.912471
52.0	0.891049D+00	-0.374571D+00	-22.80	0.934271
53.0	0.885131D+00	-0.418096D+00	-25.28	0.958261
54.0	0.878242D+00	-0.461303D+00	-27.71	0.984110
55.0	0.870285D+00	-0.504019D+00	-30.08	1.011431
56.0	0.861156D+00	-0.546073D+00	-32.38	1.039786
57.0	0.850753D+00	-0.587289D+00	-34.62	1.068690
58.0	0.838970D+00	-0.627493D+00	-36.79	1.097618
59.0	0.825701D+00	-0.666510D+00	-38.91	1.126019
60.0	0.810841D+00	-0.704168D+00	-40.97	1.153216
61.0	0.794284D+00	-0.740297D+00	-42.99	1.178927
62.0	0.775929D+00	-0.774730D+00	-44.96	1.202273
63.0	0.755676D+00	-0.807306D+00	-46.89	1.222790
64.0	0.733430D+00	-0.837868D+00	-48.80	1.239943
65.0	0.709102D+00	-0.866267D+00	-50.70	1.253243
66.0	0.682609D+00	-0.892359D+00	-52.59	1.262259
67.0	0.653876D+00	-0.916010D+00	-54.48	1.266629
68.0	0.622838D+00	-0.937096D+00	-56.39	1.266076
69.0	0.589438D+00	-0.955502D+00	-58.33	1.260421
70.0	0.553635D+00	-0.971122D+00	-60.31	1.249589
71.0	0.515397D+00	-0.983863D+00	-62.35	1.233621
72.0	0.474708D+00	-0.993645D+00	-64.46	1.212679
73.0	0.431567D+00	-0.100040D+01	-66.66	1.187049
74.0	0.385990D+00	-0.100407D+01	-68.97	1.157146
75.0	0.338009D+00	-0.100462D+01	-71.40	1.123505
76.0	0.287678D+00	-0.100201D+01	-73.98	1.086782
77.0	0.235066D+00	-0.996236D+00	-76.72	1.047743
78.0	0.180266D+00	-0.987297D+00	-79.65	1.007251
79.0	0.123390D+00	-0.975207D+00	-82.79	0.966258
80.0	0.645723D-01	-0.959997D+00	-86.15	0.925763
81.0	0.396903D-02	-0.941710D+00	-89.76	0.886833
82.0	-0.582419D-01	-0.920404D+00	-93.62	0.850536
83.0	-0.121860D+00	-0.896154D+00	-97.74	0.817942
84.0	-0.186664D+00	-0.869045D+00	-102.12	0.790082
85.0	-0.252409D+00	-0.839177D+00	-106.74	0.767928
86.0	-0.318831D+00	-0.806662D+00	-111.57	0.752357
87.0	-0.385644D+00	-0.771627D+00	-116.55	0.744129
88.0	-0.452543D+00	-0.734207D+00	-121.65	0.743856
89.0	-0.519207D+00	-0.694551D+00	-126.78	0.751977
90.0	-0.585295D+00	-0.652816D+00	-131.88	0.768740

CIRCULAR OP POLARIZATION KA= 5.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.743723D-01	0.125648D-01	9.59	0.005689
46.0	0.694067D-01	0.183360D-01	14.78	0.005153
47.0	0.638664D-01	0.239878D-01	20.55	0.004652
48.0	0.577634D-01	0.293778D-01	26.96	0.004200
49.0	0.511148D-01	0.345590D-01	34.06	0.003807
50.0	0.439422D-01	0.394209D-01	41.90	0.003485
51.0	0.362723D-01	0.438998D-01	50.43	0.003243
52.0	0.281368D-01	0.479336D-01	59.59	0.003089
53.0	0.195720D-01	0.514626D-01	69.18	0.003031
54.0	0.106193D-01	0.544298D-01	78.96	0.003075
55.0	0.132450D-02	0.567820D-01	88.66	0.003226
56.0	-0.826187D-02	0.584704D-01	98.04	0.003487
57.0	-0.180851D-01	0.594510D-01	106.92	0.003861
58.0	-0.280864D-01	0.596855D-01	115.20	0.004351
59.0	-0.382032D-01	0.591416D-01	122.86	0.004957
60.0	-0.483698D-01	0.577941D-01	129.93	0.005680
61.0	-0.585173D-01	0.556247D-01	136.45	0.006518
62.0	-0.685745D-01	0.526232D-01	142.50	0.007472
63.0	-0.784679D-01	0.487875D-01	148.13	0.008537
64.0	-0.881228D-01	0.441239D-01	153.40	0.009713
65.0	-0.974634D-01	0.386478D-01	158.37	0.010993
66.0	-0.106414D+00	0.323836D-01	163.07	0.012373
67.0	-0.114898D+00	0.253648D-01	167.55	0.013845
68.0	-0.122841D+00	0.176347D-01	171.83	0.015401
69.0	-0.130169D+00	0.924529D-02	175.94	0.017030
70.0	-0.136813D+00	0.258321D-03	179.89	0.018718
71.0	-0.142702D+00	-0.925563D-02	-176.29	0.020450
72.0	-0.147774D+00	-0.192171D-01	-172.59	0.022206
73.0	-0.151967D+00	-0.295384D-01	-169.00	0.023967
74.0	-0.155227D+00	-0.401234D-01	-165.51	0.025705
75.0	-0.157504D+00	-0.508690D-01	-162.10	0.027395
76.0	-0.158753D+00	-0.616650D-01	-158.77	0.029005
77.0	-0.158939D+00	-0.723952D-01	-155.51	0.030503
78.0	-0.158032D+00	-0.829380D-01	-152.31	0.031853
79.0	-0.156009D+00	-0.931676D-01	-149.15	0.033019
80.0	-0.152858D+00	-0.102955D+00	-146.04	0.033965
81.0	-0.148572D+00	-0.112167D+00	-142.95	0.034656
82.0	-0.143152D+00	-0.120617D+00	-139.87	0.035056
83.0	-0.136628D+00	-0.128386D+00	-136.79	0.035137
84.0	-0.129002D+00	-0.135025D+00	-133.69	0.034874
85.0	-0.120314D+00	-0.140617D+00	-130.55	0.034248
86.0	-0.110604D+00	-0.144977D+00	-127.34	0.033251
87.0	-0.999232D-01	-0.147987D+00	-124.03	0.031885
88.0	-0.883309D-01	-0.149532D+00	-120.57	0.030162
89.0	-0.758958D-01	-0.149505D+00	-116.91	0.028112
90.0	-0.626949D-01	-0.147808D+00	-112.98	0.025778

CIRCULAR PP POLARIZATION KA= 5.000

THETA	REAL	IMAG	PHASE	MBCS
90.0	-0.585295D+00	-0.652816D+00	-131.88	0.768740
91.0	-0.650453D+00	0.609171D+00	-136.68	0.798178
92.0	-0.714312D+00	-0.563791D+00	-141.72	0.828102
93.0	-0.776494D+00	-0.516859D+00	-146.35	0.870086
94.0	-0.836611D+00	-0.468566D+00	-150.75	0.919471
95.0	-0.894267D+00	-0.419106D+00	-154.89	0.975364
96.0	-0.949065D+00	-0.368681D+00	-158.77	1.036651
97.0	-0.100061D+01	-0.317498D+00	-162.40	1.102014
98.0	-0.104849D+01	-0.265750D+00	-165.78	1.169956
99.0	-0.109233D+01	-0.213655D+00	-168.93	1.238831
100.0	-0.113174D+01	-0.161417D+00	-171.88	1.306881
101.0	-0.116634D+01	-0.109242D+00	-174.65	1.372279
102.0	-0.119578D+01	-0.573330D-01	-177.25	1.433177
103.0	-0.121972D+01	-0.588984D-02	-179.72	1.487754
104.0	-0.123784D+01	0.448913D-01	177.92	1.534274
105.0	-0.124986D+01	0.948199D-01	175.66	1.571136
106.0	-0.125550D+01	0.143712D+00	173.47	1.596926
107.0	-0.125453D+01	0.191391D+00	171.33	1.610475
108.0	-0.124676D+01	0.237688D+00	169.21	1.610901
109.0	-0.123202D+01	0.282443D+00	167.09	1.597652
110.0	-0.121020D+01	0.325507D+00	164.95	1.570543
111.0	-0.118122D+01	0.366741D+00	162.75	1.529778
112.0	-0.114504D+01	0.406017D+00	160.46	1.475974
113.0	-0.110169D+01	0.442217D+00	158.08	1.410158
114.0	-0.105122D+01	0.478238D+00	155.54	1.333768
115.0	-0.993741D+00	0.510989D+00	152.79	1.248631
116.0	-0.929426D+00	0.541389D+00	149.78	1.156934
117.0	-0.858484D+00	0.569373D+00	146.45	1.061181
118.0	-0.781181D+00	0.594869D+00	142.71	0.964137
119.0	-0.697833D+00	0.617897D+00	138.48	0.868768
120.0	-0.608804D+00	0.638371D+00	133.64	0.778160
121.0	-0.514509D+00	0.656297D+00	128.09	0.695445
122.0	-0.415408D+00	0.671675D+00	121.74	0.623711
123.0	-0.312004D+00	0.684517D+00	114.50	0.565910
124.0	-0.204843D+00	0.694848D+00	106.43	0.524775
125.0	-0.945101D-01	0.702704D+00	97.66	0.502725
126.0	0.183773D-01	0.708131D+00	88.51	0.501788
127.0	0.133170D+00	0.711189D+00	79.39	0.523524
128.0	0.249193D+00	0.711985D+00	70.71	0.568963
129.0	0.365749D+00	0.710477D+00	62.76	0.638550
130.0	0.482127D+00	0.706870D+00	55.70	0.732113
131.0	0.597604D+00	0.701220D+00	49.56	0.848840
132.0	0.711451D+00	0.693627D+00	44.27	0.987280
133.0	0.822941D+00	0.684197D+00	39.78	1.145358
134.0	0.931354D+00	0.673046D+00	35.85	1.320411
135.0	0.103598D+01	0.660288D+00	32.51	1.509243

CIRCULAR OP POLARIZATION KA= 5.000

THETA	REAL	IMAG	PHASE	MBCS
90.0	-0.626949D-01	-0.147808D+00	-112.98	0.025778
91.0	-0.488136D-01	-0.144353D+00	-108.63	0.023220
92.0	-0.343447D-01	-0.139063D+00	-103.87	0.020518
93.0	-0.193883D-01	-0.131876D+00	-98.36	0.017767
94.0	-0.405075D-02	-0.122742D+00	-91.89	0.015082
95.0	0.115561D-01	-0.111627D+00	-84.09	0.012594
96.0	0.273155D-01	-0.985135D-01	-74.50	0.010451
97.0	0.431067D-01	-0.838019D-01	-62.67	0.008614
98.0	0.588063D-01	-0.663100D-01	-48.43	0.007855
99.0	0.742888D-01	-0.472749D-01	-32.47	0.007754
100.0	0.894278D-01	-0.263536D-01	-16.42	0.008692
101.0	0.104097D+00	-0.362333D-02	-1.99	0.010849
102.0	0.118172D+00	0.208179D-01	9.99	0.014398
103.0	0.131530D+00	0.468512D-01	19.61	0.019495
104.0	0.144053D+00	0.743362D-01	27.30	0.026277
105.0	0.155626D+00	0.103112D+00	33.53	0.034852
106.0	0.166142D+00	0.132996D+00	38.68	0.045291
107.0	0.175499D+00	0.163785D+00	43.02	0.057625
108.0	0.183604D+00	0.195257D+00	46.76	0.071836
109.0	0.190374D+00	0.227168D+00	50.04	0.087848
110.0	0.195733D+00	0.259259D+00	52.95	0.105527
111.0	0.199619D+00	0.291251D+00	55.57	0.124675
112.0	0.201981D+00	0.322848D+00	57.97	0.145027
113.0	0.202778D+00	0.353742D+00	60.18	0.166252
114.0	0.201984D+00	0.383608D+00	62.23	0.187953
115.0	0.199587D+00	0.412112D+00	64.16	0.209672
116.0	0.195588D+00	0.438909D+00	65.98	0.230896
117.0	0.190002D+00	0.463645D+00	67.72	0.251067
118.0	0.182858D+00	0.485961D+00	69.38	0.269596
119.0	0.174200D+00	0.505495D+00	70.99	0.285871
120.0	0.164085D+00	0.521882D+00	72.55	0.299284
121.0	0.152585D+00	0.534757D+00	74.07	0.309247
122.0	0.139786D+00	0.543761D+00	75.58	0.315216
123.0	0.125785D+00	0.548539D+00	77.08	0.316717
124.0	0.110693D+00	0.548745D+00	78.60	0.313374
125.0	0.946305D-01	0.544043D+00	80.13	0.304937
126.0	0.777306D-01	0.534111D+00	81.72	0.291317
127.0	0.601349D-01	0.518644D+00	83.39	0.272608
128.0	0.419934D-01	0.497353D+00	85.17	0.249124
129.0	0.234623D-01	0.469974D+00	87.14	0.221426
130.0	0.470736D-02	0.436261D+00	89.38	0.190346
131.0	-0.141071D-01	0.396000D+00	92.04	0.157015
132.0	-0.328101D-01	0.349000D+00	95.37	0.122877
133.0	-0.512302D-01	0.295101D+00	99.85	0.089709
134.0	-0.691963D-01	0.234178D+00	106.46	0.059628
135.0	-0.865393D-01	0.166137D+00	117.51	0.035091

CIRCULAR PP POLARIZATION KA= 5.000

THETA	REAL	IMAG	PHASE	MECS
135.0	C.103598D+01	0.660288D+00	32.51	1.509243
136.0	0.113610D+01	0.646047D+00	29.62	1.708194
137.0	0.123117D+01	0.630445D+00	27.12	1.913229
138.0	C.132042D+01	0.613598D+00	24.92	2.120038
139.0	0.140332D+01	0.595694D+00	23.00	2.324131
140.0	0.147931D+01	0.576 [illegible]+00	21.30	2.520994
141.0	0.154789D+01	0.556961D+00	19.79	2.706169
142.0	0.160861D+01	0.536455D+00	18.44	2.875398
143.0	0.166107D+01	0.515345D+00	17.24	3.024737
144.0	0.170495D+01	0.493750D+00	16.15	3.150665
145.0	0.174000D+01	0.471[illegible]0D+00	15.17	3.250184
146.0	0.176601D+01	0.449578D+00	14.28	3.320907
147.0	0.178286D+01	0.427223D+00	13.46	3.361120
148.0	0.179052D+01	0.404830D+00	12.74	3.369836
149.0	0.178900D+01	0.382498D+00	12.07	3.346817
150.0	0.177841D+01	0.360320D+00	11.45	3.292581
151.0	0.175894D+01	0.338385D+00	10.89	3.208377
152.0	0.173084D+01	0.316774D+00	10.37	3.096152
153.0	0.169448D+01	0.295562D+00	9.89	2.958482
154.0	0.165014D+01	0.274819D+00	9.46	2.798489
155.0	0.159841D+01	0.254607D+00	9.05	2.619751
156.0	0.153979D+01	0.234982D+00	8.68	2.426181
157.0	0.147488D+01	0.215995D+00	8.33	2.221912
158.0	0.140431D+01	0.197690D+00	8.01	2.011171
159.0	0.132880D+01	0.180105D+00	7.72	1.798151
160.0	0.124909D+01	0.163272D+00	7.45	1.586888
161.0	0.116597D+01	0.147219D+00	7.20	1.381149
162.0	0.108024D+01	0.131966D+00	6.96	1.184325
163.0	0.992740D+00	0.117533D+00	6.75	0.999346
164.0	0.904329D+00	0.103932D+00	6.56	0.828612
165.0	0.815863D+00	0.911718D-01	6.38	0.673945
166.0	0.728203D+00	0.792585D-01	6.21	0.536561
167.0	0.642198D+00	0.681947D-01	6.06	0.417069
168.0	0.558685D+00	0.579805D-01	5.92	0.[illegible]
169.0	0.478472D+00	0.486139D-01	5.80	0.[illegible]
170.0	0.402339D+00	0.400912D-01	5.69	0.[illegible]
171.0	0.33[illegible]025D+00	0.324072D-01	5.59	0.[illegible]
172.0	0.265220D+00	0.255560D-01	5.50	0.011995
173.0	0.205565D+00	0.195312D-01	5.43	0.042638
174.0	0.152637D+00	0.143263D-01	5.36	0.023503
175.0	0.106952D+00	0.993473D-02	5.31	0.011537
176.0	0.689517D-01	0.635067D-02	5.26	0.004795
177.0	0.390064D-01	0.356888D-02	5.23	0.001534
178.0	0.174066D-01	0.158508D-02	5.20	0.000306
179.0	0.436226D-02	0.396105D-03	5.19	0.000019
180.0	0.270578D-10	-0.417318D-10	-57.04	0.000000

CIRCULAR CP POLARIZATION KA= 5.000

THETA	REAL	IMAG	PHASE	MECS
135.0	-0.865393D-01	0.166137D+00	117.51	0.035091
136.0	-0.103093D+00	0.909192D-01	138.59	0.018895
137.0	-0.118698D+00	0.850419D-02	175.90	0.014161
138.0	-0.133199D+00	-0.810912D-01	-148.67	0.028318
139.0	-0.146450D+00	-0.177811D+00	-129.48	0.053064
140.0	-0.158316D+00	-0.281559D+00	-119.35	0.104340
141.0	-0.168671D+00	-0.392200D+00	-113.27	0.182271
142.0	-0.177402D+00	-0.509556D+00	-109.20	0.291119
143.0	-0.184411D+00	-0.633410D+00	-106.23	0.435216
144.0	-0.189613D+00	-0.763504D+00	-103.95	0.618892
145.0	-0.192939D+00	-0.899541D+00	-102.11	0.846399
146.0	-0.194337D+00	-0.104118D+01	-100.57	1.121827
147.0	-0.193772D+00	-0.118805D+01	-99.26	1.449018
148.0	-0.191226D+00	-0.133974D+01	-98.12	1.831475
149.0	-0.186701D+00	-0.149580D+01	-97.11	2.272275
150.0	-0.180214D+00	-0.165575D+01	-96.21	2.773976
151.0	-0.171803D+00	-0.181907D+01	-95.40	3.338535
152.0	-0.161524D+00	-0.198523D+01	-94.65	3.967221
153.0	-0.149449D+00	-0.215365D+01	-93.97	4.660547
154.0	-0.135669D+00	-0.232375D+01	-93.34	5.418202
155.0	-0.120290D+00	-0.249490D+01	-92.76	6.238995
156.0	-0.103434D+00	-0.266648D+01	-92.22	7.120811
157.0	-0.852386D-01	-0.283784D+01	-91.72	8.060589
158.0	-0.658540D-01	-0.300832D+01	-91.25	9.054303
159.0	-0.454425D-01	-0.317725D+01	-90.82	10.096967
160.0	-0.241773D-01	-0.334396D+01	-90.41	11.182655
161.0	-0.220054D-02	-0.350778D+01	-90.04	12.304539
162.0	0.201782D-01	-0.366804D+01	-89.68	13.454944
163.0	0.428837D-01	-0.382408D+01	-89.36	14.625422
164.0	0.656769D-01	-0.397524D+01	-89.05	15.806836
165.0	0.883568D-01	-0.412088D+01	-88.77	16.989471
166.0	0.110722D+00	-0.426039D+01	-88.51	18.163146
167.0	0.132574D+00	-0.439315D+01	-88.27	19.317351
168.0	0.153716D+00	-0.451860D+01	-88.05	20.441380
169.0	0.173960D+00	-0.463619D+01	-87.85	21.524486
170.0	0.193122D+00	-0.474539D+01	-87.67	22.556031
171.0	0.211029D+00	-0.484573D+01	-87.51	23.525640
172.0	0.227520D+00	-0.493676D+01	-87.36	24.423361
173.0	0.242444D+00	-0.501807D+01	-87.23	25.239811
174.0	0.255666D+00	-0.508930D+01	-87.12	25.966325
175.0	0.267065D+00	-0.515012D+01	-87.03	26.595090
176.0	0.276537D+00	-0.520027D+01	-86.96	27.119270
177.0	0.283995D+00	-0.523951D+01	-86.90	27.533114
178.0	0.289372D+00	-0.526767D+01	-86.86	27.832049
179.0	0.292618D+00	-0.528461D+01	-86.83	28.012753
180.0	0.293703D+00	-0.529027D+01	-86.82	28.073213

CIRCULAR PF POLARIZATION KA= 6.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.100228D+01	0.545957D+00	151.82	1.302637
1.0	-0.100179D+01	0.545957D+00	151.81	1.301661
2.0	-0.100033D+01	0.545961D+00	151.38	1.298741
3.0	-0.997900D+00	0.545982D+00	151.32	1.293900
4.0	-0.994493D+00	0.546041D+00	151.23	1.287177
5.0	-0.990114D+00	0.546169D+00	151.12	1.278626
6.0	-0.984765D+00	0.546402D+00	150.98	1.268316
7.0	-0.978446D+00	0.546784D+00	150.80	1.256330
8.0	-0.971161D+00	0.547368D+00	150.59	1.242765
9.0	-0.962912D+00	0.548209D+00	150.35	1.227732
10.0	-0.953703D+00	0.549369D+00	150.06	1.211355
11.0	-0.943539D+00	0.550914D+00	149.72	1.193771
12.0	-0.932425D+00	0.552913D+00	149.33	1.175128
13.0	-0.920368D+00	0.555436D+00	148.89	1.155586
14.0	-0.907377D+00	0.558553D+00	148.38	1.135315
15.0	-0.893461D+00	0.562337D+00	147.81	1.114496
16.0	-0.878632D+00	0.566856D+00	147.17	1.093320
17.0	-0.862902D+00	0.572176D+00	146.45	1.071994
18.0	-0.846284D+00	0.578359D+00	145.65	1.050697
19.0	-0.828796D+00	0.585463D+00	144.76	1.029670
20.0	-0.810454D+00	0.593536D+00	143.78	1.009122
21.0	-0.791276D+00	0.602623D+00	142.71	0.989275
22.0	-0.771288D+00	0.612755D+00	141.53	0.970354
23.0	-0.750505D+00	0.623958D+00	140.26	0.952581
24.0	-0.728952D+00	0.636244D+00	138.88	0.936178
25.0	-0.706654D+00	0.649613D+00	137.41	0.921358
26.0	-0.683635D+00	0.664056D+00	135.83	0.908327
27.0	-0.659921D+00	0.679546D+00	134.16	0.897278
28.0	-0.635535D+00	0.696045D+00	132.40	0.888384
29.0	-0.610505D+00	0.713501D+00	130.55	0.881801
30.0	-0.584855D+00	0.731847D+00	128.63	0.877656
31.0	-0.558610D+00	0.751000D+00	126.64	0.876046
32.0	-0.531792D+00	0.770864D+00	124.60	0.877034
33.0	-0.504425D+00	0.791328D+00	122.52	0.880644
34.0	-0.476528D+00	0.812267D+00	120.40	0.886855
35.0	-0.448119D+00	0.833541D+00	118.26	0.895601
36.0	-0.419217D+00	0.854999D+00	116.12	0.906766
37.0	-0.389833D+00	0.876476D+00	113.98	0.920181
38.0	-0.359988D+00	0.897797D+00	111.85	0.935626
39.0	-0.329667D+00	0.918776D+00	109.74	0.952831
40.0	-0.298900D+00	0.939218D+00	107.65	0.971472
41.0	-0.267681D+00	0.958921D+00	105.60	0.991182
42.0	-0.236011D+00	0.977675D+00	103.57	1.011549
43.0	-0.203888D+00	0.995267D+00	101.58	1.032127
44.0	-0.171309D+00	0.101148D+01	99.61	1.052442
45.0	-0.138267D+00	0.102610D+01	97.67	1.072001

CIRCULAR OP POLARIZATION KA= 6.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.103306D-10	-0.160973D-10	-122.69	0.000000
1.0	-0.140667D-03	0.208412D-03	124.02	0.000000
2.0	-0.561783D-03	0.830292D-03	124.08	0.000001
3.0	-0.126065D-02	0.185558D-02	124.19	0.000005
4.0	-0.223277D-02	0.326765D-02	124.34	0.000016
5.0	-0.347178D-02	0.504353D-02	124.54	0.000037
6.0	-0.496948D-02	0.715424D-02	124.78	0.000076
7.0	-0.671516D-02	0.956513D-02	125.07	0.000137
8.0	-0.869857D-02	0.122364D-01	125.41	0.000225
9.0	-0.109039D-01	0.151236D-01	125.79	0.000348
10.0	-0.133156D-01	0.181782D-01	126.22	0.000508
11.0	-0.159156D-01	0.213484D-01	126.71	0.000709
12.0	-0.186838D-01	0.245795D-01	127.24	0.000953
13.0	-0.215979D-01	0.278153D-01	127.83	0.001240
14.0	-0.246335D-01	0.309980D-01	128.47	0.001568
15.0	-0.277642D-01	0.340699D-01	129.18	0.001932
16.0	-0.309616D-01	0.369734D-01	129.94	0.002326
17.0	-0.341953D-01	0.396527D-01	130.77	0.002742
18.0	-0.374332D-01	0.420537D-01	131.67	0.003170
19.0	-0.406414D-01	0.441255D-01	132.65	0.003599
20.0	-0.437844D-01	0.458208D-01	133.70	0.004017
21.0	-0.468256D-01	0.470970D-01	134.83	0.004411
22.0	-0.497270D-01	0.479164D-01	136.06	0.004769
23.0	-0.524501D-01	0.482872D-01	137.39	0.005079
24.0	-0.549557D-01	0.480639D-01	138.83	0.005330
25.0	-0.572047D-01	0.473479D-01	140.39	0.005514
26.0	-0.591579D-01	0.460877D-01	142.08	0.005624
27.0	-0.607770D-01	0.442796D-01	143.92	0.005655
28.0	-0.620247D-01	0.419274D-01	145.94	0.005605
29.0	-0.628654D-01	0.390432D-01	148.16	0.005476
30.0	-0.632655D-01	0.356467D-01	150.60	0.005273
31.0	-0.631938D-01	0.317655D-01	153.31	0.005002
32.0	-0.626227D-01	0.274351D-01	156.34	0.004674
33.0	-0.615266D-01	0.226981D-01	159.75	0.004301
34.0	-0.598863D-01	0.176042D-01	163.62	0.003896
35.0	-0.576857D-01	0.122095D-01	168.05	0.003477
36.0	-0.549138D-01	0.657590D-02	173.17	0.003059
37.0	-0.515653D-01	0.770523D-03	179.14	0.002660
38.0	-0.476408D-01	-0.513493D-02	-173.85	0.002296
39.0	-0.431470D-01	-0.110658D-01	-165.62	0.001984
40.0	-0.380970D-01	-0.169446D-01	-156.02	0.001739
41.0	-0.325109D-01	-0.226922D-01	-145.09	0.001572
42.0	-0.264140D-01	-0.282293D-01	-133.10	0.001495
43.0	-0.198843D-01	-0.334768D-01	-120.66	0.001514
44.0	-0.128386D-01	-0.383577D-01	-108.51	0.001636
45.0	-0.544588D-02	-0.427977D-01	-97.25	0.001861

CIRCULAR PP POLARIZATION KA= 6.000

THETA	REAL	IMAG	PHASE	MRCS
45.0	-0.138267D+00	0.102610D+01	97.67	1.072001
46.0	-0.104755D+00	0.103891D+01	95.76	1.090307
47.0	-0.707647D-01	0.104969D+01	93.86	1.106865
48.0	-0.362869D-01	0.105826D+01	91.96	1.121198
49.0	-0.131404D-02	0.106436D+01	90.07	1.132863
50.0	0.341607D-01	0.106785D+01	88.17	1.141461
51.0	0.701417D-01	0.106852D+01	86.24	1.146655
52.0	0.106630D+00	0.106621D+01	84.29	1.148181
53.0	0.143623D+00	0.106077D+01	82.29	1.145859
54.0	0.181112D+00	0.105205D+01	80.23	1.139609
55.0	0.219082D+00	0.103993D+01	78.10	1.129455
56.0	0.257509D+00	0.102432D+01	75.89	1.115536
57.0	0.296363D+00	0.100512D+01	73.57	1.098103
58.0	0.335600D+00	0.982294D+00	71.14	1.077528
59.0	0.375167D+00	0.955795D+00	68.57	1.054295
60.0	0.414998D+00	0.925619D+00	65.85	1.028935
61.0	0.455014D+00	0.891782D+00	62.97	1.002313
62.0	0.495120D+00	0.854328D+00	59.91	0.975019
63.0	0.535206D+00	0.813325D+00	56.65	0.947944
64.0	0.575147D+00	0.768872D+00	53.20	0.921959
65.0	0.614800D+00	0.721093D+00	49.55	0.897954
66.0	0.654005D+00	0.670138D+00	45.70	0.876808
67.0	0.692586D+00	0.616183D+00	41.66	0.859357
68.0	0.730348D+00	0.559432D+00	37.45	0.846372
69.0	0.767060D+00	0.500111D+00	33.10	0.838522
70.0	0.802554D+00	0.438471D+00	28.65	0.836350
71.0	0.836529D+00	0.374784D+00	24.13	0.840243
72.0	0.868746D+00	0.309343D+00	19.60	0.850413
73.0	0.898936D+00	0.242459D+00	15.09	0.866872
74.0	0.926817D+00	0.174460D+00	10.66	0.889425
75.0	0.952098D+00	0.105690D+00	6.33	0.917660
76.0	0.974482D+00	0.365013D-01	2.15	0.950948
77.0	0.993668D+00	-0.327403D-01	-1.89	0.988449
78.0	0.100935D+01	-0.101664D+00	-5.75	1.029130
79.0	0.102124D+01	-0.169894D+00	-9.45	1.071789
80.0	0.102902D+01	-0.237053D+00	-12.97	1.115082
81.0	0.103243D+01	-0.302764D+00	-16.34	1.157568
82.0	0.103117D+01	-0.366657D+00	-19.57	1.197749
83.0	0.102500D+01	-0.428365D+00	-22.68	1.234124
84.0	0.101368D+01	-0.487534D+00	-25.69	1.265281
85.0	0.997003D+00	-0.543820D+00	-28.61	1.289754
86.0	0.974781D+00	-0.596896D+00	-31.48	1.306482
87.0	0.946869D+00	-0.646451D+00	-34.32	1.314459
88.0	0.913156D+00	-0.692196D+00	-37.16	1.312989
89.0	0.873573D+00	-0.733864D+00	-40.03	1.301686
90.0	0.828095D+00	-0.771213D+00	-42.96	1.280511

CIRCULAR QP POLARIZATION KA= 6.000

THETA	REAL	IMAG	PHASE	MRCS
45.0	-0.544588D-02	-0.427977D-01	-97.25	0.001861
46.0	0.227936D-02	-0.467265D-01	-87.21	0.002189
47.0	0.102761D-01	-0.500790D-01	-78.40	0.002614
48.0	0.184774D-01	-0.527960D-01	-70.71	0.003129
49.0	0.268104D-01	-0.548258D-01	-63.94	0.003725
50.0	0.351971D-01	-0.561248D-01	-57.91	0.004389
51.0	0.435554D-01	-0.566584D-01	-52.45	0.005107
52.0	0.517990D-01	-0.564018D-01	-47.44	0.005864
53.0	0.598390D-01	-0.553410D-01	-42.76	0.006643
54.0	0.675841D-01	-0.534728D-01	-38.35	0.007427
55.0	0.749423D-01	-0.508059D-01	-34.13	0.008198
56.0	0.818213D-01	-0.473608D-01	-30.06	0.008938
57.0	0.881300D-01	-0.431699D-01	-26.10	0.009631
58.0	0.937792D-01	-0.382779D-01	-22.20	0.010260
59.0	0.986833D-01	-0.327412D-01	-18.35	0.010810
60.0	0.102761D+00	-0.266279D-01	-14.53	0.011269
61.0	0.105936D+00	-0.200171D-01	-10.70	0.011623
62.0	0.108140D+00	-0.129983D-01	-6.85	0.011863
63.0	0.109311D+00	-0.567081D-02	-2.97	0.011981
64.0	0.109398D+00	0.185778D-02	0.97	0.011971
65.0	0.108358D+00	0.947228D-02	5.00	0.011831
66.0	0.106158D+00	0.170514D-01	9.13	0.011560
67.0	0.102780D+00	0.244691D-01	13.39	0.011163
68.0	0.982161D-01	0.315963D-01	17.83	0.010645
69.0	0.924707D-01	0.383023D-01	22.50	0.010018
70.0	0.855631D-01	0.444569D-01	27.46	0.009297
71.0	0.775254D-01	0.499319D-01	32.78	0.008503
72.0	0.684041D-01	0.546032D-01	38.60	0.007661
73.0	0.582590D-01	0.583525D-01	45.05	0.006799
74.0	0.471640D-01	0.610697D-01	52.32	0.005954
75.0	0.352060D-01	0.626541D-01	60.67	0.005165
76.0	0.224848D-01	0.630170D-01	70.36	0.004477
77.0	0.911194D-02	0.620831D-01	81.65	0.003937
78.0	-0.478953D-02	0.597922D-01	94.58	0.003598
79.0	-0.190867D-01	0.561010D-01	108.79	0.003512
80.0	-0.336379D-01	0.509645D-01	123.42	0.003731
81.0	-0.482938D-01	0.444371D-01	137.38	0.004307
82.0	-0.628993D-01	0.364739D-01	149.89	0.005287
83.0	-0.772950D-01	0.271314D-01	160.66	0.006711
84.0	-0.913188D-01	0.164683D-01	169.78	0.008610
85.0	-0.104808D+00	0.456573D-02	177.51	0.011006
86.0	-0.117602D+00	-0.847245D-02	-175.88	0.013902
87.0	-0.129542D+00	-0.225201D-01	-170.14	0.017288
88.0	-0.140474D+00	-0.374290D-01	-165.08	0.021134
89.0	-0.150255D+00	-0.530299D-01	-160.56	0.025389
90.0	-0.158746D+00	-0.691333D-01	-156.47	0.029980

CIRCULAR PP POLARIZATION KA= 6.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.828095D+00	-0.771213D+00	-42.96	1.280511
91.0	0.776746D+00	-0.804027D+00	-45.99	1.249795
92.0	0.719603D+00	-0.832119D+00	-49.15	1.210252
93.0	0.656795D+00	-0.855333D+00	-52.48	1.162974
94.0	0.588503D+00	-0.873542D+00	-56.03	1.109818
95.0	0.514988D+00	-0.886654D+00	-59.85	1.051368
96.0	0.436537D+00	-0.894608D+00	-63.99	0.990889
97.0	0.353520D+00	-0.897379D+00	-68.50	0.930266
98.0	0.266360D+00	-0.894975D+00	-73.43	0.871927
99.0	0.175541D+00	-0.887436D+00	-78.81	0.818357
100.0	0.816017D-01	-0.874858D+00	-84.67	0.772001
101.0	-0.148611D-01	-0.857290D+00	-90.99	0.735167
102.0	-0.113200D+00	-0.834932D+00	-97.72	0.709925
103.0	-0.212718D+00	-0.807934D+00	-104.75	0.698007
104.0	-0.312676D+00	-0.776499D+00	-111.93	0.700716
105.0	-0.412294D+00	-0.740854D+00	-119.10	0.718851
106.0	-0.510761D+00	-0.701255D+00	-126.07	0.752635
107.0	-0.607240D+00	-0.657980D+00	-132.70	0.801677
108.0	-0.700674D+00	-0.611330D+00	-138.90	0.864949
109.0	-0.790799D+00	-0.561625D+00	-144.62	0.940786
110.0	-0.876146D+00	-0.509201D+00	-149.84	1.026917
111.0	-0.956053D+00	-0.454408D+00	-154.58	1.120524
112.0	-0.102968D+01	-0.397609D+00	-158.89	1.218324
113.0	-0.109619D+01	-0.339174D+00	-162.81	1.316679
114.0	-0.115482D+01	-0.279478D+00	-166.40	1.411727
115.0	-0.120483D+01	-0.218858D+00	-169.70	1.499526
116.0	-0.124552D+01	-0.157814D+00	-172.78	1.576224
117.0	-0.127628D+01	-0.965992D-01	-175.67	1.638220
118.0	-0.129656D+01	-0.356220D-01	-178.43	1.682336
119.0	-0.130589D+01	0.247577D-01	178.91	1.705973
120.0	-0.130391D+01	0.841915D-01	176.31	1.707262
121.0	-0.129032D+01	0.142345D+00	173.70	1.685181
122.0	-0.126495D+01	0.198899D+00	171.06	1.639656
123.0	-0.122773D+01	0.253554D+00	168.33	1.571615
124.0	-0.117871D+01	0.306030D+00	165.45	1.483014
125.0	-0.111805D+01	0.356067D+00	162.33	1.376812
126.0	-0.104601D+01	0.403432D+00	158.91	1.256904
127.0	-0.963012D+00	0.447913D+00	155.06	1.128017
128.0	-0.869550D+00	0.489325D+00	150.63	0.995556
129.0	-0.766257D+00	0.527510D+00	145.46	0.865417
130.0	-0.653873D+00	0.562336D+00	139.30	0.743771
131.0	-0.533242D+00	0.593698D+00	131.97	0.636828
132.0	-0.405308D+00	0.621518D+00	123.11	0.550559
133.0	-0.271107D+00	0.645747D+00	112.77	0.490488
134.0	-0.131758D+00	0.666359D+00	101.18	0.461395
135.0	0.115508D-01	0.683357D+00	89.03	0.467110

CIRCUL[illegible]P POLARIZATION KA= 6.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.158746D+00	-0.691333D-01	-156.47	0.029980
91.0	-0.165822D+00	-0.855313D-01	-152.72	0.034813
92.0	-0.171372D+00	-0.101999D+00	-149.24	0.039772
93.0	-0.175296D+00	-0.118296D+00	-145.99	0.044722
94.0	-0.177513D+00	-0.134170D+00	-142.92	0.049512
95.0	-0.177960D+00	-0.149358D+00	-139.99	0.053977
96.0	-0.176590D+00	-0.163590D+00	-137.19	0.057946
97.0	-0.173380D+00	-0.176593D+00	-134.47	0.061246
98.0	-0.168325D+00	-0.188091D+00	-131.83	0.063712
99.0	-0.161442D+00	-0.197813D+00	-129.22	0.065194
100.0	-0.152770D+00	-0.205491D+00	-126.63	0.065565
101.0	-0.142370D+00	-0.210871D+00	-124.03	0.064736
102.0	-0.130324D+00	-0.213710D+00	-121.38	0.062656
103.0	-0.116736D+00	-0.213783D+00	-118.64	0.059330
104.0	-0.101730D+00	-0.210887D+00	-115.75	0.054822
105.0	-0.854494D-01	-0.204844D+00	-112.64	0.049263
106.0	-0.680551D-01	-0.195506D+00	-109.19	0.042854
107.0	-0.497251D-01	-0.182757D+00	-105.22	0.035873
108.0	-0.306518D-01	-0.166515D+00	-100.43	0.028667
109.0	-0.110403D-01	-0.146739D+00	-94.30	0.021654
110.0	0.889422D-02	-0.123431D+00	-85.86	0.015314
111.0	0.289287D-01	-0.966252D-01	-73.33	0.010175
112.0	0.488350D-01	-0.664426D-01	-53.68	0.006799
113.0	0.683823D-01	-0.329935D-01	-25.76	0.005765
114.0	0.873403D-01	0.352265D-02	2.31	0.007641
115.0	0.105482D+00	0.428658D-01	22.12	0.012964
116.0	0.122587D+00	0.847450D-01	34.66	0.022209
117.0	0.138443D+00	0.128819D+00	42.94	0.035761
118.0	0.152851D+00	0.174695D+00	48.82	0.053882
119.0	0.165625D+00	0.221935D+00	53.27	0.076687
120.0	0.176599D+00	0.270050D+00	56.82	0.104114
121.0	0.185623D+00	0.318510D+00	59.77	0.135905
122.0	0.192[illegible]8D+00	0.366741D+00	62.30	0.171584
123.0	0.19[illegible]8D+00	0.414132D+00	64.52	0.210452
124.0	0.199871D+00	0.460040D+00	66.52	0.251585
125.0	0.200092D+00	0.503789D+00	68.34	0.293840
126.0	0.197992D+00	0.544681D+00	70.02	0.335878
127.0	0.193578D+00	0.582000D+00	71.60	0.376196
128.0	0.186889D+00	0.615015D+00	73.10	0.413171
129.0	0.177991D+00	0.642390D+00	74.53	0.445118
130.0	0.166980D+00	0.665189D+00	75.91	0.470359
131.0	0.153980D+00	0.680882D+00	77.26	0.487311
132.0	0.139141D+00	0.689354D+00	78.59	0.494569
133.0	0.122639D+00	0.689908D+00	79.92	0.491014
134.0	0.104673D+00	0.681880D+00	81.27	0.475917
135.0	0.85[illegible]2D-01	0.664638D+00	82.67	0.449048

CIRCULAR PP POLARIZATION KA= 6.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.115508D-01	0.683357D+00	89.03	0.467110
136.0	0.157571D+00	0.696766D+00	77.26	0.510311
137.0	0.305007D+00	0.706637D+00	66.65	0.592365
138.0	0.452531D+00	0.713044D+00	57.60	0.713216
139.0	0.598796D+00	0.716080D+00	50.10	0.871327
140.0	0.742453D+00	0.715859D+00	43.96	1.063690
141.0	0.882163D+00	0.712513D+00	38.93	1.285887
142.0	0.101662D+01	0.706190D+00	34.79	1.532217
143.0	0.114455D+01	0.697053D+00	31.34	1.795881
144.0	0.126476D+01	0.685277D+00	28.45	2.069213
145.0	0.137610D+01	0.671048D+00	26.09	2.343957
146.0	0.147754D+01	0.654559D+00	23.89	2.611573
147.0	0.156813D+01	0.636012D+00	22.08	2.863559
148.0	0.164706D+01	0.615613D+00	20.49	3.091780
149.0	0.171361D+01	0.593572D+00	19.11	3.288787
150.0	0.176723D+01	0.570098D+00	17.88	3.448107
151.0	0.180749D+01	0.545401D+00	16.79	3.564495
152.0	0.183418D+01	0.519690D+00	15.82	3.634145
153.0	0.184706D+01	0.493169D+00	14.95	3.654331
154.0	0.184629D+01	0.466038D+00	14.17	3.625983
155.0	0.183206D+01	0.438491D+00	13.46	3.548700
156.0	0.180472D+01	0.410716D+00	12.82	3.425685
157.0	0.176480D+01	0.382890D+00	12.24	3.261110
158.0	0.171297D+01	0.355184D+00	11.71	3.060428
159.0	0.165006D+01	0.327760D+00	11.23	2.830126
160.0	0.157701D+01	0.300769D+00	10.80	2.577432
161.0	0.149490D+01	0.274352D+00	10.40	2.310007
162.0	0.140492D+01	0.248640D+00	10.04	2.035617
163.0	0.130833D+01	0.223754D+00	9.70	1.761804
164.0	0.120651D+01	0.199804D+00	9.40	1.495592
165.0	0.110087D+01	0.176890D+00	9.13	1.243209
166.0	0.992881D+00	0.155104D+00	8.88	1.009870
167.0	0.884031D+00	0.134527D+00	8.65	0.799608
168.0	0.775820D+00	0.115231D+00	8.45	0.615175
169.0	0.669734D+00	0.972797D-01	8.26	0.458007
170.0	0.567226D+00	0.807291D-01	8.10	0.328262
171.0	0.469697D+00	0.656277D-01	7.95	0.224922
172.0	0.378480D+00	0.520174D-01	7.83	0.145953
173.0	0.294819D+00	0.399335D-01	7.71	0.088513
174.0	0.219856D+00	0.294060D-01	7.62	0.049201
175.0	0.154610D+00	0.204595D-01	7.54	0.024323
176.0	0.999717D-01	0.131180D-01	7.47	0.010166
177.0	0.566841D-01	0.738521D-02	7.42	0.003268
178.0	0.253366D-01	0.328502D-02	7.39	0.000653
179.0	0.635576D-02	0.821656D-03	7.37	0.000041
180.0	0.185073D-09	0.291059D-09	57.55	0.000000

CIRCULAR OP POLARIZATION KA= 6.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.854642D-01	0.664638D+00	82.67	0.449048
136.0	0.652504D-01	0.637593D+00	84.16	0.410782
137.0	0.442861D-01	0.600206D+00	85.78	0.362209
138.0	0.228380D-01	0.551994D+00	87.63	0.305219
139.0	0.118186D-02	0.492538D+00	89.86	0.242595
140.0	-0.204011D-01	0.421484D+00	92.77	0.178065
141.0	-0.416276D-01	0.338556D+00	97.01	0.116353
142.0	-0.622163D-01	0.243556D+00	104.33	0.063190
143.0	-0.818913D-01	0.136369D+00	120.99	0.025303
144.0	-0.100386D+00	0.169684D-01	170.41	0.010365
145.0	-0.117447D+00	-0.114581D+00	-135.71	0.026923
146.0	-0.132837D+00	-0.258122D+00	-117.23	0.084273
147.0	-0.146339D+00	-0.413401D+00	-109.49	0.192315
148.0	-0.157758D+00	-0.580070D+00	-105.21	0.361368
149.0	-0.166925D+00	-0.757684D+00	-102.42	0.601948
150.0	-0.173700D+00	-0.945703D+00	-100.41	0.924526
151.0	-0.177972D+00	-0.114349D+01	-98.85	1.339253
152.0	-0.179663D+00	-0.135033D+01	-97.58	1.855677
153.0	-0.178728D+00	-0.156541D+01	-96.51	2.482443
154.0	-0.175158D+00	-0.178782D+01	-95.60	3.226987
155.0	-0.168976D+00	-0.201660D+01	-94.79	4.095240
156.0	-0.160741D+00	-0.225070D+01	-94.07	5.091350
157.0	-0.149648D+00	-0.248902D+01	-93.43	6.217413
158.0	-0.135521D+00	-0.273036D+01	-92.84	7.473255
159.0	-0.119819D+00	-0.297353D+01	-92.31	8.856237
160.0	-0.102131D+00	-0.321725D+01	-91.82	10.361122
161.0	-0.826716D-01	-0.346022D+01	-91.37	11.979989
162.0	-0.616811D-01	-0.370114D+01	-90.95	13.702215
163.0	-0.394215D-01	-0.393865D+01	-90.57	15.514515
164.0	-0.161729D-01	-0.417143D+01	-90.22	17.401053
165.0	0.776996D-02	-0.439813D+01	-89.90	19.343625
166.0	0.321017D-01	-0.461745D+01	-89.60	21.321897
167.0	0.565102D-01	-0.482810D+01	-89.33	23.313718
168.0	0.806813D-01	-0.502881D+01	-89.08	25.295484
169.0	0.104302D+00	-0.521840D+01	-88.85	27.242550
170.0	0.127066D+00	-0.539570D+01	-88.65	29.129689
171.0	0.148678D+00	-0.555963D+01	-88.47	30.931573
172.0	0.168854D+00	-0.570918D+01	-88.31	32.623279
173.0	0.187332D+00	-0.584343D+01	-88.16	34.180800
174.0	0.203869D+00	-0.596154D+01	-88.04	35.581541
175.0	0.218248D+00	-0.606277D+01	-87.94	36.804805
176.0	0.230280D+00	-0.614648D+01	-87.85	37.832240
177.0	0.239806D+00	-0.621214D+01	-87.79	38.648238
178.0	0.246702D+00	-0.625935D+01	-87.74	39.240282
179.0	0.250877D+00	-0.628779D+01	-87.72	39.599226
180.0	0.252274D+00	-0.629729D+01	-87.71	39.719498

CIRCULAR PP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	RCS
0.0	0.214491D-01	-0.107482D+01	-88.86	1.155696
1.0	0.206433D-01	-0.107432D+01	-88.90	1.154596
2.0	0.182275D-01	-0.107284D+01	-89.03	1.151318
3.0	0.142068D-01	-0.107039D+01	-89.24	1.145930
4.0	0.858969D-02	-0.106699D+01	-89.54	1.138548
5.0	0.138822D-02	-0.106269D+01	-89.93	1.129315
6.0	-0.738179D-02	-0.105753D+01	-90.40	1.118433
7.0	-0.177006D-01	-0.105158D+01	-90.96	1.106124
8.0	-0.295444D-01	-0.104488D+01	-91.62	1.092644
9.0	-0.428651D-01	-0.103751D+01	-92.37	1.078273
10.0	-0.576897D-01	-0.102955D+01	-93.21	1.063307
11.0	-0.739206D-01	-0.102107D+01	-94.14	1.048058
12.0	-0.915352D-01	-0.101216D+01	-95.17	1.032841
13.0	-0.110485D+00	-0.100288D+01	-96.29	1.017973
14.0	-0.130717D+00	-0.993315D+00	-97.50	1.003761
15.0	-0.152172D+00	-0.983538D+00	-98.80	0.990503
16.0	-0.174785D+00	-0.973614D+00	-100.18	0.978473
17.0	-0.198485D+00	-0.963601D+00	-101.64	0.967923
18.0	-0.223195D+00	-0.953550D+00	-103.17	0.959074
19.0	-0.248834D+00	-0.943499D+00	-104.77	0.952109
20.0	-0.275315D+00	-0.933475D+00	-106.43	0.947174
21.0	-0.302543D+00	-0.923492D+00	-108.14	0.944369
22.0	-0.330422D+00	-0.913547D+00	-109.88	0.943747
23.0	-0.358850D+00	-0.903625D+00	-111.66	0.945312
24.0	-0.387721D+00	-0.893693D+00	-113.45	0.949014
25.0	-0.416924D+00	-0.883702D+00	-115.26	0.954754
26.0	-0.446348D+00	-0.873586D+00	-117.06	0.962379
27.0	-0.475879D+00	-0.863263D+00	-118.87	0.971684
28.0	-0.505400D+00	-0.852636D+00	-120.66	0.982419
29.0	-0.534796D+00	-0.841592D+00	-122.43	0.994284
30.0	-0.563951D+00	-0.830002D+00	-124.19	1.006944
31.0	-0.592748D+00	-0.817727D+00	-125.96	1.020028
32.0	-0.621074D+00	-0.804616D+00	-127.66	1.033139
33.0	-0.648818D+00	-0.790506D+00	-129.38	1.045865
34.0	-0.675872D+00	-0.775230D+00	-131.08	1.057784
35.0	-0.702131D+00	-0.758613D+00	-132.79	1.068482
36.0	-0.727495D+00	-0.740481D+00	-134.49	1.077561
37.0	-0.751867D+00	-0.720657D+00	-136.21	1.084650
38.0	-0.775157D+00	-0.698967D+00	-137.96	1.089424
39.0	-0.797280D+00	-0.675246D+00	-139.74	1.091613
40.0	-0.818154D+00	-0.649336D+00	-141.56	1.091013
41.0	-0.837704D+00	-0.621090D+00	-143.45	1.087501
42.0	-0.855861D+00	-0.590377D+00	-145.40	1.081044
43.0	-0.872558D+00	-0.557087D+00	-147.44	1.071704
44.0	-0.887735D+00	-0.521127D+00	-149.59	1.059646
45.0	-0.901333D+00	-0.482430D+00	-151.84	1.045140

CIRCULAR OP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.684096D-11	0.869305D-12	172.76	0.000000
1.0	0.135944D-03	-0.233220D-03	-59.76	0.000000
2.0	0.542671D-03	-0.927917D-03	-59.68	0.000001
3.0	0.121683D-02	-0.206923D-02	-59.54	0.000006
4.0	0.215281D-02	-0.363270D-02	-59.35	0.000018
5.0	0.334268D-02	-0.558465D-02	-59.10	0.000042
6.0	0.477614D-02	-0.788285D-02	-58.79	0.000085
7.0	0.644049D-02	-0.104772D-01	-58.42	0.000151
8.0	0.832049D-02	-0.133107D-01	-57.99	0.000246
9.0	0.103984D-01	-0.163203D-01	-57.50	0.000374
10.0	0.126537D-01	-0.194383D-01	-56.94	0.000538
11.0	0.150633D-01	-0.225934D-01	-56.31	0.000737
12.0	0.176016D-01	-0.257118D-01	-55.61	0.000971
13.0	0.202400D-01	-0.287189D-01	-54.83	0.001234
14.0	0.229476D-01	-0.315408D-01	-53.96	0.001521
15.0	0.256907D-01	-0.341050D-01	-53.01	0.001823
16.0	0.284334D-01	-0.363425D-01	-51.96	0.002129
17.0	0.311377D-01	-0.381888D-01	-50.81	0.002428
18.0	0.337636D-01	-0.395851D-01	-49.54	0.002707
19.0	0.362696D-01	-0.404799D-01	-48.14	0.002954
20.0	0.386131D-01	-0.408294D-01	-46.60	0.003158
21.0	0.407508D-01	-0.405994D-01	-44.89	0.003309
22.0	0.426393D-01	-0.397651D-01	-43.00	0.003399
23.0	0.442356D-01	-0.383126D-01	-40.90	0.003425
24.0	0.454979D-01	-0.362389D-01	-38.54	0.003383
25.0	0.463860D-01	-0.335525D-01	-35.88	0.003277
26.0	0.468624D-01	-0.302733D-01	-32.86	0.003113
27.0	0.468929D-01	-0.264326D-01	-29.41	0.002898
28.0	0.464471D-01	-0.220728D-01	-25.42	0.002645
29.0	0.454997D-01	-0.172470D-01	-20.76	0.002368
30.0	0.440309D-01	-0.120182D-01	-15.27	0.002083
31.0	0.420271D-01	-0.645843D-02	-8.74	0.001808
32.0	0.394817D-01	-0.647874D-03	-0.94	0.001559
33.0	0.363956D-01	0.532664D-02	8.33	0.001353
34.0	0.327779D-01	0.113728D-01	19.14	0.001204
35.0	0.286462D-01	0.173944D-01	31.27	0.001123
36.0	0.240270D-01	0.232930D-01	44.11	0.001120
37.0	0.189556D-01	0.289694D-01	56.80	0.001199
38.0	0.134765D-01	0.343256D-01	68.56	0.001360
39.0	0.764319D-02	0.392667D-01	78.99	0.001600
40.0	0.151786D-02	0.437023D-01	88.01	0.001912
41.0	-0.482909D-02	0.475486D-01	95.80	0.002284
42.0	-0.113196D-01	0.507298D-01	102.58	0.002702
43.0	-0.178686D-01	0.531799D-01	108.57	0.003147
44.0	-0.243852D-01	0.548443D-01	113.97	0.003603
45.0	-0.307736D-01	0.556806D-01	118.93	0.004047

CIRCULAR PP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.901333D+00	-0.482430D+00	-151.84	1.045140
46.0	-0.913298D+00	-0.440956D+00	-154.23	1.028556
47.0	-0.923579D+00	-0.396691D+00	-156.76	1.010362
48.0	-0.932125D+00	-0.349656D+00	-159.44	0.991115
49.0	-0.938885D+00	-0.299901D+00	-162.29	0.971445
50.0	-0.943810D+00	-0.247513D+00	-165.31	0.952039
51.0	-0.946847D+00	-0.192613D+00	-168.50	0.933620
52.0	-0.947945D+00	-0.135359D+00	-171.87	0.916921
53.0	-0.947045D+00	-0.759441D-01	-175.42	0.902662
54.0	-0.944089D+00	-0.145976D-01	-179.11	0.891518
55.0	-0.939013D+00	0.484153D-01	177.05	0.884089
56.0	-0.931747D+00	0.112795D+00	173.10	0.880875
57.0	-0.922217D+00	0.178210D+00	169.06	0.882244
58.0	-0.910347D+00	0.244297D+00	164.98	0.888412
59.0	-0.896052D+00	0.310665D+00	160.88	0.899422
60.0	-0.879245D+00	0.376900D+00	156.80	0.915125
61.0	-0.859836D+00	0.442562D+00	152.76	0.935178
62.0	-0.837731D+00	0.507197D+00	148.81	0.959043
63.0	-0.812838D+00	0.570336D+00	144.94	0.985990
64.0	-0.785065D+00	0.631501D+00	141.19	1.015119
65.0	-0.754320D+00	0.690207D+00	137.54	1.045385
66.0	-0.720522D+00	0.745974D+00	134.01	1.075629
67.0	-0.683593D+00	0.798324D+00	130.57	1.104621
68.0	-0.643470D+00	0.846791D+00	127.23	1.131109
69.0	-0.600103D+00	0.890925D+00	123.96	1.153872
70.0	-0.553458D+00	0.930300D+00	120.75	1.171773
71.0	-0.503526D+00	0.964511D+00	117.57	1.183821
72.0	-0.450320D+00	0.993192D+00	114.39	1.189218
73.0	-0.393883D+00	0.101601D+01	111.19	1.187414
74.0	-0.334289D+00	0.103267D+01	107.94	1.178148
75.0	-0.271649D+00	0.104292D+01	104.60	1.161480
76.0	-0.206113D+00	0.104658D+01	101.14	1.137808
77.0	-0.137872D+00	0.104349D+01	97.53	1.107881
78.0	-0.671610D-01	0.103357D+01	93.72	1.072777
79.0	0.573632D-02	0.101679D+01	89.68	1.033886
80.0	0.804895D-01	0.993168D+00	85.37	0.992861
81.0	0.156719D+00	0.962805D+00	80.75	0.951555
82.0	0.233995D+00	0.925850D+00	75.82	0.911951
83.0	0.311839D+00	0.882513D+00	70.54	0.876073
84.0	0.389726D+00	0.833068D+00	64.93	0.845889
85.0	0.467085D+00	0.777846D+00	59.02	0.823213
86.0	0.543303D+00	0.717234D+00	52.86	0.809603
87.0	0.617730D+00	0.651673D+00	46.53	0.806268
88.0	0.689681D+00	0.581654D+00	40.14	0.813981
89.0	0.758448D+00	0.507713D+00	33.80	0.833016
90.0	0.823301D+00	0.430429D+00	27.60	0.863093

CIRCULAR OP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.307736D-01	0.556806D-01	118.93	0.004047
46.0	-0.369343D-01	0.556602D-01	123.57	0.004462
47.0	-0.427656D-01	0.547691D-01	127.98	0.004829
48.0	-0.481650D-01	0.530086D-01	132.26	0.005130
49.0	-0.530309D-01	0.503956D-01	136.46	0.005352
50.0	-0.572643D-01	0.469630D-01	140.64	0.005485
51.0	-0.607704D-01	0.427592D-01	144.87	0.005521
52.0	-0.634603D-01	0.378485D-01	149.19	0.005460
53.0	-0.652532D-01	0.323096D-01	153.66	0.005302
54.0	-0.660774D-01	0.262348D-01	158.35	0.005054
55.0	-0.658728D-01	0.197293D-01	163.33	0.004728
56.0	-0.645916D-01	0.129090D-01	168.70	0.004339
57.0	-0.622005D-01	0.589915D-02	174.58	0.003904
58.0	-0.586814D-01	-0.116800D-02	-178.86	0.003445
59.0	-0.540328D-01	-0.815504D-02	-171.42	0.002986
60.0	-0.482704D-01	-0.149220D-01	-162.82	0.002553
61.0	-0.414280D-01	-0.213290D-01	-152.76	0.002171
62.0	-0.335576D-01	-0.272386D-01	-140.93	0.001868
63.0	-0.247296D-01	-0.325186D-01	-127.25	0.001669
64.0	-0.150323D-01	-0.370449D-01	-112.09	0.001598
65.0	-0.457161D-02	-0.407040D-01	-96.41	0.001678
66.0	0.652984D-02	-0.433957D-01	-81.44	0.001926
67.0	0.181341D-01	-0.450353D-01	-68.07	0.002357
68.0	0.300893D-01	-0.455563D-01	-56.56	0.002981
69.0	0.422314D-01	-0.449120D-01	-46.76	0.003801
70.0	0.543864D-01	-0.430776D-01	-38.38	0.004814
71.0	0.663726D-01	-0.400515D-01	-31.11	0.006009
72.0	0.780032D-01	-0.358563D-01	-24.69	0.007370
73.0	0.890890D-01	-0.305397D-01	-18.92	0.008870
74.0	0.994416D-01	-0.241747D-01	-13.66	0.010473
75.0	0.108876D+00	-0.168591D-01	-8.80	0.012138
76.0	0.117214D+00	-0.871532D-02	-4.25	0.013815
77.0	0.124287D+00	0.110966D-03	0.05	0.015447
78.0	0.129940D+00	0.945252D-02	4.16	0.016974
79.0	0.134034D+00	0.191225D-01	8.12	0.018331
80.0	0.136447D+00	0.289171D-01	11.97	0.019454
81.0	0.137080D+00	0.386186D-01	15.73	0.020282
82.0	0.135858D+00	0.479984D-01	19.46	0.020761
83.0	0.132731D+00	0.568214D-01	23.18	0.020846
84.0	0.127676D+00	0.648497D-01	26.93	0.020507
85.0	0.120700D+00	0.718469D-01	30.76	0.019731
86.0	0.111841D+00	0.775829D-01	34.75	0.018527
87.0	0.101164D+00	0.818384D-01	38.97	0.016932
88.0	0.887674D-01	0.844098D-01	43.56	0.015005
89.0	0.767773D-01	0.851139D-01	48.70	0.012836
90.0	0.593493D-01	0.837925D-01	54.69	0.010544

CIRCULAR PP POLARIZATION KL= 7.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	0.823301D+00	0.430429D+00	27.60	0.863093
91.0	0.883498D+00	0.350415D+00	21.63	0.903359
92.0	0.938296D+00	0.268314D+00	15.96	0.952392
93.0	0.986958D+00	0.184795D+00	10.61	1.008236
94.0	0.102877D+01	0.100542D+00	5.58	1.068467
95.0	0.106302D+01	0.162521D-01	0.88	1.130285
96.0	0.108908D+01	-0.673744D-01	-3.54	1.190640
97.0	0.110634D+01	-0.149640D+00	-7.70	1.246374
98.0	0.111425D+01	-0.229857D+00	-11.66	1.294381
99.0	0.111235D+01	-0.307355D+00	-15.45	1.331778
100.0	0.110025D+01	-0.381486D+00	-19.12	1.356075
101.0	0.107767D+01	-0.451633D+00	-22.74	1.365336
102.0	0.104442D+01	-0.517215D+00	-26.35	1.358319
103.0	0.100043D+01	-0.577694D+00	-30.00	1.334594
104.0	0.945762D+00	-0.632579D+00	-33.78	1.294622
105.0	0.880589D+00	-0.681431D+00	-37.73	1.239786
106.0	0.805227D+00	-0.723869D+00	-41.95	1.172377
107.0	0.720127D+00	-0.759571D+00	-46.53	1.095532
108.0	0.625879D+00	-0.788281D+00	-51.55	1.013112
109.0	0.523211D+00	-0.809807D+00	-57.13	0.929537
110.0	0.412986D+00	-0.824025D+00	-63.38	0.849575
111.0	0.296199D+00	-0.830879D+00	-70.38	0.778094
112.0	0.173968D+00	-0.830383D+00	-78.17	0.719801
113.0	0.475289D-01	-0.822616D+00	-86.69	0.678956
114.0	-0.817821D-01	-0.807726D+00	-95.78	0.659110
115.0	-0.212536D+00	-0.785924D+00	-105.13	0.662848
116.0	-0.343230D+00	-0.757481D+00	-114.38	0.691585
117.0	-0.472302D+00	-0.722730D+00	-123.16	0.745408
118.0	-0.598153D+00	-0.682053D+00	-131.25	0.822983
119.0	-0.719164D+00	-0.635884D+00	-138.52	0.921545
120.0	-0.833721D+00	-0.584701D+00	-144.96	1.036965
121.0	-0.940235D+00	-0.529018D+00	-150.64	1.163902
122.0	-0.103717D+01	-0.469386D+00	-155.65	1.296038
123.0	-0.112305D+01	-0.406379D+00	-160.11	1.426384
124.0	-0.119651D+01	-0.340593D+00	-164.11	1.547646
125.0	-0.125631D+01	-0.272635D+00	-167.76	1.652633
126.0	-0.130132D+01	-0.203123D+00	-171.13	1.734685
127.0	-0.133060D+01	-0.132673D+00	-174.31	1.788093
128.0	-0.134338D+01	-0.618971D-01	-177.36	1.808500
129.0	-0.133909D+01	0.860595D-02	179.63	1.793238
130.0	-0.131737D+01	0.782537D-01	176.60	1.741589
131.0	-0.127808D+01	0.146487D+00	173.46	1.654953
132.0	-0.122132D+01	0.212775D+00	170.12	1.536895
133.0	-0.114741D+01	0.276619D+00	166.45	1.393078
134.0	-0.105694D+01	0.337559D+00	162.29	1.231058
135.0	-0.950687D+00	0.395173D+00	157.43	1.059968

CIRCULAR OP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	0.593493D-01	0.837925D-01	54.69	0.010548
91.0	0.426658D-01	0.803166D-01	62.02	0.008271
92.0	0.249345D-01	0.745912D-01	71.52	0.006186
93.0	0.638533D-02	0.665582D-01	84.52	0.004471
94.0	-0.127323D-01	0.562008D-01	102.76	0.003321
95.0	-0.321528D-01	0.435452D-01	126.44	0.002930
96.0	-0.515986D-01	0.286638D-01	150.95	0.003484
97.0	-0.707836D-01	0.116762D-01	170.63	0.005147
98.0	-0.894184D-01	-0.724974D-02	-175.36	0.008048
99.0	-0.107214D+00	-0.278979D-01	-165.41	0.012273
100.0	-0.123887D+00	-0.500049D-01	-158.02	0.017849
101.0	-0.139165D+00	-0.732613D-01	-152.24	0.024734
102.0	-0.152790D+00	-0.973147D-01	-147.51	0.032815
103.0	-0.164522D+00	-0.121772D+00	-143.49	0.041896
104.0	-0.174148D+00	-0.146206D+00	-139.98	0.051704
105.0	-0.181480D+00	-0.170158D+00	-136.84	0.061889
106.0	-0.186365D+00	-0.193145D+00	-133.98	0.072037
107.0	-0.188682D+00	-0.214665D+00	-131.31	0.081682
108.0	-0.188349D+00	-0.234208D+00	-128.81	0.090329
109.0	-0.185325D+00	-0.251260D+00	-126.41	0.097477
110.0	-0.179609D+00	-0.265313D+00	-124.10	0.102650
111.0	-0.171244D+00	-0.275874D+00	-121.83	0.105431
112.0	-0.160314D+00	-0.282475D+00	-119.56	0.105493
113.0	-0.146949D+00	-0.284681D+00	-117.30	0.102637
114.0	-0.131315D+00	-0.282101D+00	-114.96	0.096825
115.0	-0.113622D+00	-0.274395D+00	-112.49	0.088203
116.0	-0.941142D-01	-0.261286D+00	-109.81	0.077128
117.0	-0.730685D-01	-0.242565D+00	-106.76	0.064177
118.0	-0.507920D-01	-0.218104D+00	-103.11	0.050149
119.0	-0.276161D-01	-0.187858D+00	-98.36	0.036053
120.0	-0.389159D-02	-0.151875D+00	-91.47	0.023081
121.0	0.200167D-01	-0.110301D+00	-79.71	0.012567
122.0	0.437360D-01	-0.633847D-01	-55.39	0.005930
123.0	0.668915D-01	-0.114773D-01	-9.74	0.004606
124.0	0.891129D-01	0.449591D-01	26.77	0.009962
125.0	0.110041D+00	0.105358D+00	43.75	0.023209
126.0	0.129332D+00	0.169046D+00	52.58	0.045303
127.0	0.146667D+00	0.235243D+00	58.06	0.076851
128.0	0.161757D+00	0.303074D+00	61.91	0.118019
129.0	0.174343D+00	0.371564D+00	64.86	0.168456
130.0	0.184210D+00	0.439658D+00	67.27	0.227233
131.0	0.191184D+00	0.506218D+00	69.31	0.292808
132.0	0.195138D+00	0.570041D+00	71.10	0.363025
133.0	0.195995D+00	0.629867D+00	72.72	0.435146
134.0	0.193731D+00	0.684394D+00	74.19	0.505927
135.0	0.188374D+00	0.732292D+00	75.57	0.571737

CIRCULAR PP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	0.823301D+00	0.430429D+00	27.60	0.863093
91.0	0.883498D+00	0.350415D+00	21.63	0.903359
92.0	0.938296D+00	0.268314D+00	15.96	0.952392
93.0	0.986958D+00	0.184795D+00	10.61	1.008236
94.0	0.102877D+01	0.100542D+00	5.58	1.068467
95.0	0.106302D+01	0.162521D-01	0.88	1.130285
96.0	0.108908D+01	-0.673744D-01	-3.54	1.190640
97.0	0.110634D+01	-0.149640D+00	-7.70	1.246374
98.0	0.111425D+01	-0.229857D+00	-11.66	1.294381
99.0	0.111235D+01	-0.307355D+00	-15.45	1.331778
100.0	0.110025D+01	-0.381486D+00	-19.12	1.356075
101.0	0.107767D+01	-0.451633D+00	-22.74	1.365336
102.0	0.104442D+01	-0.517215D+00	-26.35	1.358319
103.0	0.100043D+01	-0.577694D+00	-30.00	1.334594
104.0	0.945762D+00	-0.632579D+00	-33.78	1.294622
105.0	0.880589D+00	-0.681431D+00	-37.73	1.239786
106.0	0.805227D+00	-0.723869D+00	-41.95	1.172377
107.0	0.720127D+00	-0.759571D+00	-46.53	1.095532
108.0	0.625879D+00	-0.788281D+00	-51.55	1.013112
109.0	0.523211D+00	-0.809807D+00	-57.13	0.929537
110.0	0.412986D+00	-0.824025D+00	-63.38	0.849575
111.0	0.296199D+00	-0.830879D+00	-70.38	0.778098
112.0	0.173968D+00	-0.830383D+00	-78.17	0.719801
113.0	0.475289D-01	-0.822616D+00	-86.69	0.678956
114.0	-0.817821D-01	-0.807726D+00	-95.78	0.659110
115.0	-0.212536D+00	-0.785924D+00	-105.13	0.662848
116.0	-0.343230D+00	-0.757481D+00	-114.38	0.691585
117.0	-0.472302D+00	-0.722730D+00	-123.16	0.745408
118.0	-0.598153D+00	-0.682053D+00	-131.25	0.822983
119.0	-0.719164D+00	-0.635884D+00	-138.52	0.921545
120.0	-0.833721D+00	-0.584701D+00	-144.96	1.036965
121.0	-0.940235D+00	-0.529018D+00	-150.64	1.163902
122.0	-0.103717D+01	-0.469386D+00	-155.65	1.296038
123.0	-0.112305D+01	-0.406379D+00	-160.11	1.426384
124.0	-0.119651D+01	-0.340593D+00	-164.11	1.547646
125.0	-0.125631D+01	-0.272635D+00	-167.76	1.652633
126.0	-0.130132D+01	-0.203123D+00	-171.13	1.734685
127.0	-0.133060D+01	-0.132673D+00	-174.31	1.788093
128.0	-0.134338D+01	-0.618971D-01	-177.36	1.808500
129.0	-0.133909D+01	0.860595D-02	179.63	1.793238
130.0	-0.131737D+01	0.782537D-01	176.60	1.741589
131.0	-0.127808D+01	0.146487D+00	173.56	1.654953
132.0	-0.122132D+01	0.212775D+00	170.12	1.536895
133.0	-0.114741D+01	0.276619D+00	166.45	1.393078
134.0	-0.105694D+01	0.337559D+00	162.29	1.231058
135.0	-0.950687D+00	0.395173D+00	157.43	1.059968

CIRCULAR OP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	0.593493D-01	0.837925D-01	54.69	0.010544
91.0	0.426658D-01	0.803166D-01	62.02	0.008271
92.0	0.249345D-01	0.745912D-01	71.52	0.006186
93.0	0.638533D-02	0.665582D-01	84.52	0.004471
94.0	-0.127323D-01	0.562008D-01	102.76	0.003321
95.0	-0.321528D-01	0.435452D-01	126.24	0.002930
96.0	-0.515986D-01	0.286638D-01	150.95	0.003484
97.0	-0.707836D-01	0.116762D-01	170.63	0.005147
98.0	-0.894184D-01	-0.724974D-02	-175.36	0.008048
99.0	-0.107214D+00	-0.278979D-01	-165.41	0.012273
100.0	-0.123887D+00	-0.500049D-01	-158.02	0.017849
101.0	-0.139165D+00	-0.732613D-01	-152.24	0.024734
102.0	-0.152790D+00	-0.973147D-01	-147.51	0.032815
103.0	-0.164522D+00	-0.121772D+00	-143.49	0.041896
104.0	-0.174148D+00	-0.146206D+00	-139.98	0.051704
105.0	-0.181480D+00	-0.170158D+00	-136.84	0.061889
106.0	-0.186365D+00	-0.193145D+00	-133.98	0.072037
107.0	-0.188682D+00	-0.214665D+00	-131.31	0.081682
108.0	-0.188349D+00	-0.234208D+00	-128.81	0.090329
109.0	-0.185325D+00	-0.251260D+00	-126.41	0.097477
110.0	-0.179609D+00	-0.265313D+00	-124.10	0.102650
111.0	-0.171244D+00	-0.275874D+00	-121.83	0.105431
112.0	-0.160314D+00	-0.282475D+00	-119.58	0.105493
113.0	-0.146949D+00	-0.284681D+00	-117.30	0.102637
114.0	-0.131315D+00	-0.282101D+00	-114.96	0.096825
115.0	-0.113622D+00	-0.274395D+00	-112.49	0.088203
116.0	-0.941142D-01	-0.261286D+00	-109.81	0.077128
117.0	-0.730685D-01	-0.242565D+00	-106.76	0.064177
118.0	-0.507920D-01	-0.218104D+00	-103.11	0.050149
119.0	-0.276161D-01	-0.187858D+00	-98.36	0.036053
120.0	-0.389159D-02	-0.151875D+00	-91.47	0.023081
121.0	0.200167D-01	-0.110301D+00	-79.71	0.012567
122.0	0.437360D-01	-0.633847D-01	-55.39	0.005930
123.0	0.668915D-01	-0.114778D-01	-9.74	0.004606
124.0	0.891129D-01	0.449591D-01	26.77	0.009962
125.0	0.110041D+00	0.105358D+00	43.75	0.023209
126.0	0.129332D+00	0.169046D+00	52.58	0.045303
127.0	0.146667D+00	0.235243D+00	58.06	0.076851
128.0	0.161757D+00	0.303074D+00	61.91	0.118019
129.0	0.174343D+00	0.371564D+00	64.86	0.168456
130.0	0.184210D+00	0.439658D+00	67.27	0.227233
131.0	0.191184D+00	0.506218D+00	69.31	0.292808
132.0	0.195138D+00	0.570041D+00	71.10	0.363025
133.0	0.195995D+00	0.629867D+00	72.72	0.435146
134.0	0.193731D+00	0.684394D+00	74.19	0.505927
135.0	0.188374D+00	0.732292D+00	75.57	0.571737

CIRCULAR PP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.950687D+00	0.395173D+00	157.43	1.059968
136.0	-0.829705D+00	0.449085D+00	151.58	0.890088
137.0	-0.695246D+00	0.498964D+00	144.33	0.732332
138.0	-0.548771D+00	0.544528D+00	135.22	0.597660
139.0	-0.391932D+00	0.585542D+00	123.80	0.496471
140.0	-0.226552D+00	0.621825D+00	110.02	0.437992
141.0	-0.545962D-01	0.653241D+00	94.78	0.429705
142.0	0.121851D+00	0.679709D+00	79.84	0.476851
143.0	0.300617D+00	0.701191D+00	66.79	0.582040
144.0	0.479470D+00	0.717702D+00	56.25	0.744987
145.0	0.656157D+00	0.729297D+00	48.02	0.962416
146.0	0.828434D+00	0.736076D+00	41.62	1.228110
147.0	0.994102D+00	0.738179D+00	36.60	1.533147
148.0	0.115104D+01	0.735783D+00	32.59	1.866277
149.0	0.129723D+01	0.729097D+00	29.34	2.214448
150.0	0.143088D+01	0.718361D+00	26.66	2.563447
151.0	0.155023D+01	0.703842D+00	24.42	2.898611
152.0	0.165385D+01	0.685827D+00	22.52	3.205580
153.0	0.174049D+01	0.664623D+00	20.90	3.471043
154.0	0.180918D+01	0.640552D+00	19.50	3.683435
155.0	0.185919D+01	0.613948D+00	18.27	3.833538
156.0	0.189012D+01	0.585149D+00	17.20	3.914952
157.0	0.190183D+01	0.554500D+00	16.25	3.924416
158.0	0.189449D+01	0.522345D+00	15.41	3.861940
159.0	0.186359D+01	0.489026D+00	14.67	3.730762
160.0	0.182488D+01	0.454881D+00	14.00	3.537112
161.0	0.176443D+01	0.420238D+00	13.40	3.289815
162.0	0.168855D+01	0.385416D+00	12.86	2.999747
163.0	0.159881D+01	0.350723D+00	12.37	2.679192
164.0	0.149699D+01	0.316452D+00	11.94	2.341121
165.0	0.138508D+01	0.282881D+00	11.54	1.998461
166.0	0.126521D+01	0.250273D+00	11.19	1.663390
167.0	0.113965D+01	0.218874D+00	10.87	1.346702
168.0	0.101074D+01	0.188911D+00	10.59	1.057284
169.0	0.880884D+00	0.160594D+00	10.33	0.801747
170.0	0.752475D+00	0.134116D+00	10.11	0.584205
171.0	0.627875D+00	0.109649D+00	9.91	0.406250
172.0	0.509369D+00	0.873507D-01	9.73	0.267087
173.0	0.399123D+00	0.673579D-01	9.56	0.163836
174.0	0.299149D+00	0.497917D-01	9.45	0.091970
175.0	0.211269D+00	0.347556D-01	9.34	0.045843
176.0	0.137081D+00	0.223365D-01	9.25	0.019290
177.0	0.779331D-01	0.126048D-01	9.19	0.006232
178.0	0.349008D-01	0.561497D-02	9.14	0.001250
179.0	0.876496D-02	0.140566D-02	9.11	0.000079
180.0	0.137774D-09	-0.190161D-10	-7.66	0.000000

CIRCULAR OP POLARIZATION KA= 7.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.188374D+00	0.732292D+00	75.57	0.571737
136.0	0.180005D+00	0.772217D+00	76.88	0.628721
137.0	0.168757D+00	0.802826D+00	78.13	0.673008
138.0	0.154815D+00	0.822797D+00	79.34	0.700962
139.0	0.138410D+00	0.830843D+00	80.54	0.709458
140.0	0.119819D+00	0.825732D+00	81.74	0.696190
141.0	0.993581D-01	0.806302D+00	82.98	0.659995
142.0	0.773788D-01	0.771478D+00	84.27	0.601166
143.0	0.542614D-01	0.720291D+00	85.69	0.521764
144.0	0.304089D-01	0.651894D+00	87.33	0.425890
145.0	0.623985D-02	0.565572D+00	89.37	0.319910
146.0	-0.178188D-01	0.460762D+00	92.21	0.212620
147.0	-0.413392D-01	0.337066D+00	96.99	0.115322
148.0	-0.639002D-01	0.194255D+00	108.21	0.041818
149.0	-0.850951D-01	0.322857D-01	159.22	0.008284
150.0	-0.104539D+00	-0.148696D+00	-125.11	0.033039
151.0	-0.121875D+00	-0.348348D+00	-109.28	0.136200
152.0	-0.136783D+00	-0.566129D+00	-103.58	0.339212
153.0	-0.148983D+00	-0.801299D+00	-100.53	0.664275
154.0	-0.158242D+00	-0.105292D+01	-98.55	1.133675
155.0	-0.164379D+00	-0.131985D+01	-97.10	1.769026
156.0	-0.167269D+00	-0.160078D+01	-95.97	2.590462
157.0	-0.166840D+00	-0.189419D+01	-95.03	3.615791
158.0	-0.163085D+00	-0.219842D+01	-94.24	4.859647
159.0	-0.156052D+00	-0.251164D+01	-93.56	6.332674
160.0	-0.145851D+00	-0.283187D+01	-92.95	8.040768
161.0	-0.132649D+00	-0.315703D+01	-92.41	9.984417
162.0	-0.116666D+00	-0.348490D+01	-91.92	12.158173
163.0	-0.981755D-01	-0.381322D+01	-91.47	14.550272
164.0	-0.774955D-01	-0.413962D+01	-91.07	17.142445
165.0	-0.549857D-01	-0.446172D+01	-90.71	19.909926
166.0	-0.310399D-01	-0.477710D+01	-90.37	22.821667
167.0	-0.607897D-02	-0.508338D+01	-90.07	25.840775
168.0	0.194561D-01	-0.537818D+01	-89.79	28.925164
169.0	0.451126D-01	-0.565918D+01	-89.54	32.028398
170.0	0.704346D-01	-0.592417D+01	-89.32	35.100726
171.0	0.949705D-01	-0.617100D+01	-89.12	38.090257
172.0	0.118282D+00	-0.639768D+01	-88.94	40.944263
173.0	0.139952D+00	-0.660235D+01	-88.79	43.610546
174.0	0.159592D+00	-0.678332D+01	-88.65	46.038846
175.0	0.176848D+00	-0.693909D+01	-88.54	48.182225
176.0	0.191412D+00	-0.706836D+01	-88.45	49.998395
177.0	0.203021D+00	-0.716[illegible]D+01	-88.38	51.450926
178.0	0.211465D+00	-0.723331D+01	-88.33	52.510307
179.0	0.216594D+00	-0.728752D+01	-88.30	53.154810
180.0	0.218314D+00	-0.730229D+01	-88.29	53.371138

CIRCULAR PP POLARIZATION KA= 8.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.871865D+00	0.416577D+00	25.54	0.933684
1.0	0.872341D+00	0.415491D+00	25.47	0.933612
2.0	0.873768D+00	0.412244D+00	25.26	0.933414
3.0	0.876132D+00	0.406862D+00	24.91	0.933143
4.0	0.879414D+00	0.399393D+00	24.43	0.932885
5.0	0.883583D+00	0.389901D+00	23.81	0.932751
6.0	0.888618D+00	0.378465D+00	23.07	0.932877
7.0	0.894460D+00	0.365179D+00	22.21	0.933414
8.0	0.901060D+00	0.350150D+00	21.24	0.934515
9.0	0.908359D+00	0.333496D+00	20.16	0.936336
10.0	0.916286D+00	0.315342D+00	18.99	0.939020
11.0	0.924759D+00	0.295818D+00	17.74	0.942688
12.0	0.933691D+00	0.275058D+00	16.41	0.947437
13.0	0.942983D+00	0.253198D+00	15.03	0.953325
14.0	0.952525D+00	0.230368D+00	13.60	0.960374
15.0	0.962201D+00	0.206697D+00	12.12	0.968555
16.0	0.971884D+00	0.182304D+00	10.62	0.977794
17.0	0.981440D+00	0.157299D+00	9.11	0.987967
18.0	0.990725D+00	0.131782D+00	7.58	0.998902
19.0	0.999589D+00	0.105839D+00	6.04	1.010380
20.0	0.100788D+01	0.795391D-01	4.51	1.022142
21.0	0.101543D+01	0.529385D-01	2.98	1.033896
22.0	0.102208D+01	0.260753D-01	1.46	1.045321
23.0	0.102766D+01	-0.102864D-02	-0.06	1.056081
24.0	0.103200D+01	-0.283683D-01	-1.57	1.065834
25.0	0.103495D+01	-0.559543D-01	-3.09	1.074244
26.0	0.103632D+01	-0.838123D-01	-4.62	1.080991
27.0	0.103598D+01	-0.111981D+00	-6.17	1.085787
28.0	0.103375D+01	-0.140511D+00	-7.74	1.088389
29.0	0.102951D+01	-0.169460D+00	-9.35	1.088604
30.0	0.102311D+01	-0.198894D+00	-11.00	1.086311
31.0	0.101443D+01	-0.228881D+00	-12.71	1.081458
32.0	0.100337D+01	-0.259489D+00	-14.50	1.074081
33.0	0.989822D+00	-0.290782D+00	-16.37	1.064302
34.0	0.973717D+00	-0.322816D+00	-18.34	1.052335
35.0	0.954990D+00	-0.355635D+00	-20.43	1.038483
36.0	0.933598D+00	-0.389270D+00	-22.63	1.023137
37.0	0.909515D+00	-0.423732D+00	-24.98	1.006767
38.0	0.882733D+00	-0.459010D+00	-27.47	0.989908
39.0	0.853265D+00	-0.495065D+00	-30.12	0.973151
40.0	0.821139D+00	-0.531834D+00	-32.93	0.957117
41.0	0.786404D+00	-0.569218D+00	-35.90	0.942440
42.0	0.749124D+00	-0.607088D+00	-39.02	0.929742
43.0	0.709379D+00	-0.645280D+00	-42.29	0.919605
44.0	0.667265D+00	-0.683593D+00	-45.69	0.912542
45.0	0.622892D+00	-0.721791D+00	-49.21	0.908977

CIRCULAR OP POLARIZATION KA= 8.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.260365D-11	-0.872592D-11	-73.39	0.000000
1.0	-0.132648D-03	0.255631D-03	117.42	0.000000
2.0	-0.529367D-03	0.101562D-02	117.53	0.000001
3.0	-0.118644D-02	0.225938D-02	117.70	0.000007
4.0	-0.209761D-02	0.395308D-02	117.95	0.000020
5.0	-0.325399D-02	0.605045D-02	118.27	0.000047
6.0	-0.464395D-02	0.849380D-02	118.67	0.000094
7.0	-0.625298D-02	0.112153D-01	119.14	0.000165
8.0	-0.806358D-02	0.141387D-01	119.70	0.000265
9.0	-0.100551D-01	0.171808D-01	120.34	0.000396
10.0	-0.122036D-01	0.202534D-01	121.07	0.000559
11.0	-0.144820D-01	0.232657D-01	121.90	0.000751
12.0	-0.168598D-01	0.261260D-01	122.84	0.000967
13.0	-0.193031D-01	0.287441D-01	123.88	0.001199
14.0	-0.217750D-01	0.310333D-01	125.06	0.001437
15.0	-0.242358D-01	0.329128D-01	126.37	0.001671
16.0	-0.266430D-01	0.343094D-01	127.83	0.001887
17.0	-0.289521D-01	0.351595D-01	129.47	0.002074
18.0	-0.311169D-01	0.354109D-01	131.31	0.002222
19.0	-0.330904D-01	0.350241D-01	133.37	0.002322
20.0	-0.348251D-01	0.339737D-01	135.71	0.002367
21.0	-0.362745D-01	0.322491D-01	138.36	0.002356
22.0	-0.373936D-01	0.298551D-01	141.40	0.002290
23.0	-0.381399D-01	0.268126D-01	144.89	0.002174
24.0	-0.384747D-01	0.231580D-01	148.96	0.002017
25.0	-0.383641D-01	0.169431D-01	153.72	0.001831
26.0	-0.377802D-01	0.142342D-01	159.36	0.001630
27.0	-0.367017D-01	0.911102D-02	166.06	0.001430
28.0	-0.351155D-01	0.366529D-02	174.04	0.001247
29.0	-0.330174D-01	-0.200101D-02	-176.53	0.001094
30.0	-0.304129D-01	-0.777764D-02	-165.65	0.000985
31.0	-0.273176D-01	-0.135484D-01	-153.62	0.000930
32.0	-0.237581D-01	-0.191934D-01	-141.07	0.000933
33.0	-0.197722D-01	-0.245919D-01	-128.80	0.000996
34.0	-0.154084D-01	-0.296247D-01	-117.48	0.001115
35.0	-0.107265D-01	-0.341770D-01	-107.42	0.001283
36.0	-0.579653D-02	-0.381411D-01	-98.64	0.001488
37.0	-0.698221D-03	-0.414189D-01	-90.97	0.001716
38.0	0.448002D-02	-0.439244D-01	-84.18	0.001949
39.0	0.964240D-02	-0.455858D-01	-78.06	0.002171
40.0	0.146873D-01	-0.463480D-01	-72.42	0.002364
41.0	0.195091D-01	-0.461737D-01	-67.10	0.002513
42.0	0.240000D-01	-0.450450D-01	-61.95	0.002605
43.0	0.280524D-01	-0.429645D-01	-56.86	0.002633
44.0	0.315612D-01	-0.399554D-01	-51.69	0.002593
45.0	0.344260D-01	-0.360623D-01	-46.33	0.002486

CIRCULAR PP POLARIZATION KA= 8.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.622892D+00	-0.721791D+00	-49.21	0.908977
46.0	0.576381D+00	-0.759603D+00	-52.81	0.909212
47.0	0.527865D+00	-0.796722D+00	-56.47	0.913408
48.0	0.477485D+00	-0.832813D+00	-60.17	0.921569
49.0	0.425391D+00	-0.867507D+00	-63.88	0.933526
50.0	0.371739D+00	-0.900411D+00	-67.57	0.948930
51.0	0.316690D+00	-0.931112D+00	-71.22	0.967261
52.0	0.260410D+00	-0.959176D+00	-74.81	0.987832
53.0	0.203067D+00	-0.984163D+00	-78.34	1.009812
54.0	0.144833D+00	-0.100562D+01	-81.80	1.032255
55.0	0.958827D-01	-0.102311D+01	-85.20	1.054133
56.0	0.263913D-01	-0.103619D+01	-88.54	1.074386
57.0	-0.334617D-01	-0.104444D+01	-91.84	1.091970
58.0	-0.934938D-01	-0.104746D+01	-95.10	1.105905
59.0	-0.153518D+00	-0.104488D+01	-98.36	1.115338
60.0	-0.213343D+00	-0.103638D+01	-101.63	1.119591
61.0	-0.272770D+00	-0.102167D+01	-104.95	1.118209
62.0	-0.331589D+00	-0.100052D+01	-108.34	1.111002
63.0	-0.389585D+00	-0.972778D+00	-111.83	1.098073
64.0	-0.446526D+00	-0.938324D+00	-115.45	1.079836
65.0	-0.502168D+00	-0.897130D+00	-119.24	1.057015
66.0	-0.556251D+00	-0.849241D+00	-123.22	1.030626
67.0	-0.608498D+00	-0.794780D+00	-127.44	1.001945
68.0	-0.658614D+00	-0.733950D+00	-131.90	0.972456
69.0	-0.706284D+00	-0.667040D+00	-136.64	0.943779
70.0	-0.751172D+00	-0.594421D+00	-141.64	0.917593
71.0	-0.792927D+00	-0.516544D+00	-146.92	0.895551
72.0	-0.831175D+00	-0.433945D+00	-152.43	0.879160
73.0	-0.865529D+00	-0.347231D+00	-158.14	0.869711
74.0	-0.895587D+00	-0.257084D+00	-163.98	0.868169
75.0	-0.920937D+00	-0.164251D+00	-169.89	0.875103
76.0	-0.941160D+00	-0.695336D-01	-175.77	0.890617
77.0	-0.955838D+00	0.262127D-01	178.43	0.914314
78.0	-0.964560D+00	0.122095D+00	172.79	0.945282
79.0	-0.966925D+00	0.217188D+00	167.34	0.982114
80.0	-0.962555D+00	0.310552D+00	162.12	1.022956
81.0	-0.951104D+00	0.401236D+00	157.13	1.065589
82.0	-0.932261D+00	0.488297D+00	152.36	1.107545
83.0	-0.905768D+00	0.570809D+00	147.78	1.146238
84.0	-0.871424D+00	0.647875D+00	143.37	1.179122
85.0	-0.829098D+00	0.718643D+00	139.08	1.203851
86.0	-0.778738D+00	0.782315D+00	134.87	1.218449
87.0	-0.720381D+00	0.838160D+00	130.68	1.221461
88.0	-0.654163D+00	0.885524D+00	126.45	1.212081
89.0	-0.580324D+00	0.923841D+00	122.14	1.190258
90.0	-0.499218D+00	0.952643D+00	117.66	1.156747

CIRCULAR OP POLARIZATION KA= 8.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.344260D-01	-0.360623D-01	-46.33	0.002486
46.0	0.365538D-01	-0.313498D-01	-40.62	0.002319
47.0	0.378615D-01	-0.259026D-01	-34.38	0.002104
48.0	0.382779D-01	-0.198235D-01	-27.38	0.001858
49.0	0.377464D-01	-0.132318D-01	-19.32	0.001600
50.0	0.362270D-01	-0.626133D-02	-9.81	0.001352
51.0	0.336979D-01	0.942691D-03	1.60	0.001136
52.0	0.301574D-01	0.822626D-02	15.26	0.000977
53.0	0.256249D-01	0.154300D-01	31.05	0.000895
54.0	0.201417D-01	0.223927D-01	48.03	0.000907
55.0	0.137714D-01	0.289550D-01	64.56	0.001028
56.0	0.660009D-02	0.349629D-01	79.31	0.001266
57.0	-0.126472D-02	0.402721D-01	91.80	0.001623
58.0	-0.969486D-02	0.447511D-01	102.22	0.002097
59.0	-0.185432D-01	0.482849D-01	111.01	0.002675
60.0	-0.276458D-01	0.507785D-01	118.57	0.003343
61.0	-0.368244D-01	0.521595D-01	125.22	0.004077
62.0	-0.458894D-01	0.523810D-01	131.22	0.004850
63.0	-0.546436D-01	0.514227D-01	136.74	0.005630
64.0	-0.628855D-01	0.492935D-01	141.91	0.006384
65.0	-0.704139D-01	0.460315D-01	146.83	0.007077
66.0	-0.770315D-01	0.417045D-01	151.57	0.007673
67.0	-0.825501D-01	0.364091D-01	156.20	0.008140
68.0	-0.867943D-01	0.302699D-01	160.77	0.008450
69.0	-0.896061D-01	0.234372D-01	165.34	0.008579
70.0	-0.908493D-01	0.160844D-01	169.96	0.008512
71.0	-0.904131D-01	0.840443D-02	174.69	0.008245
72.0	-0.882157D-01	0.606149D-03	179.61	0.007782
73.0	-0.842076D-01	-0.709041D-02	-175.19	0.007141
74.0	-0.783737D-01	-0.144591D-01	-169.55	0.006352
75.0	-0.707359D-01	-0.212731D-01	-163.26	0.005456
76.0	-0.613535D-01	-0.273105D-01	-156.00	0.004510
77.0	-0.503243D-01	-0.323599D-01	-147.26	0.003580
78.0	-0.377840D-01	-0.362269D-01	-136.21	0.002740
79.0	-0.239050D-01	-0.387394D-01	-121.68	0.002072
80.0	-0.889427D-02	-0.397530D-01	-102.61	0.001659
81.0	0.700901D-02	-0.391566D-01	-79.85	0.001582
82.0	0.235376D-01	-0.368766D-01	-57.45	0.001914
83.0	0.404003D-01	-0.328811D-01	-39.14	0.002713
84.0	0.572872D-01	-0.271825D-01	-25.38	0.004021
85.0	0.738751D-01	-0.198407D-01	-15.03	0.005851
86.0	0.898340D-01	-0.109632D-01	-6.96	0.008190
87.0	0.104833D+00	-0.706328D-03	-0.39	0.010991
88.0	0.118549D+00	0.107267D-01	5.17	0.014169
89.0	0.130671D+00	0.230873D-01	10.02	0.017608
90.0	0.140908D+00	0.360853D-01	14.36	0.021157

CIRCULAR PP POLARIZATION KA= 8.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.499218D+00	0.952643D+00	117.66	1.156747
91.0	-0.411317D+00	0.971565D+00	112.95	1.113121
92.0	-0.317214D+00	0.980357D+00	107.93	1.061724
93.0	-0.217626D+00	0.978882D+00	102.53	1.005570
94.0	-0.113392D+00	0.967125D+00	96.69	0.948188
95.0	-0.547290D-02	0.945193D+00	90.33	0.893419
96.0	0.105057D+00	0.913315D+00	83.44	0.845182
97.0	0.217017D+00	0.871843D+00	76.02	0.807206
98.0	0.329130D+00	0.821243D+00	68.16	0.782766
99.0	0.440034D+00	0.762096D+00	60.00	0.774421
100.0	0.548303D+00	0.695090D+00	51.73	0.783787
101.0	0.652462D+00	0.621010D+00	43.59	0.811359
102.0	0.751007D+00	0.540728D+00	35.75	0.856398
103.0	0.842431D+00	0.455195D+00	28.38	0.916892
104.0	0.925246D+00	0.365428D+00	21.55	0.989619
105.0	0.998012D+00	0.272495D+00	15.27	1.070281
106.0	0.105936D+01	0.177508D+00	9.51	1.153750
107.0	0.110802D+01	0.815852D-01	4.21	1.234367
108.0	0.114286D+01	-0.141212D-01	-0.71	1.306325
109.0	0.116289D+01	-0.108481D+00	-5.33	1.364077
110.0	0.116731D+01	-0.200380D+00	-9.74	1.402759
111.0	0.115552D+01	-0.288741D+00	-14.03	1.418597
112.0	0.112715D+01	-0.372535D+00	-18.29	1.409258
113.0	0.108209D+01	-0.450796D+00	-22.62	1.374128
114.0	0.102045D+01	-0.522634D+00	-27.12	1.314470
115.0	0.942662D+00	-0.587244D+00	-31.92	1.233467
116.0	0.849401D+00	-0.643920D+00	-37.17	1.136115
117.0	0.741637D+00	-0.692059D+00	-43.02	1.028971
118.0	0.620616D+00	-0.731170D+00	-49.68	0.919774
119.0	0.487850D+00	-0.760881D+00	-57.33	0.816938
120.0	0.345105D+00	-0.780941D+00	-66.16	0.728966
121.0	0.194383D+00	-0.791221D+00	-76.20	0.663815
122.0	0.378909D-01	-0.791715D+00	-87.26	0.628248
123.0	-0.121984D+00	-0.782539D+00	-98.86	0.627247
124.0	-0.282713D+00	-0.763927D+00	-110.31	0.663511
125.0	-0.441666D+00	-0.736226D+00	-120.96	0.737098
126.0	-0.596152D+00	-0.699891D+00	-130.42	0.845244
127.0	-0.743469D+00	-0.655472D+00	-138.60	0.982390
128.0	-0.880952D+00	-0.603611D+00	-145.58	1.140423
129.0	-0.100602D+01	-0.545030D+00	-151.55	1.309134
130.0	-0.111623D+01	-0.480517D+00	-156.71	1.476867
131.0	-0.120933D+01	-0.410916D+00	-161.23	1.631322
132.0	-0.128328D+01	-0.337116D+00	-165.28	1.760464
133.0	-0.133636D+01	-0.260035D+00	-168.99	1.853469
134.0	-0.136712D+01	-0.180611D+00	-172.47	1.901643
135.0	-0.137451D+01	-0.997848D-01	-175.85	1.899227

CIRCULAR OP POLARIZATION KA= 8.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.140908D+00	0.360853D-01	14.36	0.021157
91.0	0.148998D+00	0.493933D-01	18.34	0.024640
92.0	0.154710D+00	0.626527D-01	22.05	0.027861
93.0	0.157855D+00	0.754799D-01	25.56	0.030615
94.0	0.158287D+00	0.874751D-01	28.93	0.032707
95.0	0.155908D+00	0.982300D-01	32.21	0.033957
96.0	0.150677D+00	0.107338D+00	35.46	0.034225
97.0	0.142605D+00	0.114403D+00	38.74	0.033424
98.0	0.131761D+00	0.119051D+00	42.10	0.031534
99.0	0.118271D+00	0.120941D+00	45.64	0.028615
100.0	0.102319D+00	0.119773D+00	49.49	0.024815
101.0	0.841413D-01	0.115300D+00	53.88	0.020374
102.0	0.640276D-01	0.107337D+00	59.18	0.015621
103.0	0.423129D-01	0.957696D-01	66.16	0.010962
104.0	0.193733D-01	0.805619D-01	76.48	0.006866
105.0	-0.436058D-02	0.617629D-01	94.06	0.003834
106.0	-0.285115D-01	0.395110D-01	125.81	0.002374
107.0	-0.525639D-01	0.140376D-01	165.05	0.002960
108.0	-0.760730D-01	-0.143316D-01	-169.33	0.005993
109.0	-0.985743D-01	-0.451773D-01	-155.38	0.011758
110.0	-0.119613D+00	-0.779891D-01	-146.90	0.020390
111.0	-0.138755D+00	-0.112171D+00	-141.05	0.031835
112.0	-0.155593D+00	-0.147047D+00	-136.62	0.045832
113.0	-0.169761D+00	-0.181872D+00	-133.03	0.061896
114.0	-0.180939D+00	-0.215843D+00	-129.97	0.079327
115.0	-0.188861D+00	-0.248111D+00	-127.28	0.097228
116.0	-0.193324D+00	-0.277798D+00	-124.83	0.114546
117.0	-0.194191D+00	-0.304011D+00	-122.57	0.130132
118.0	-0.191396D+00	-0.325863D+00	-120.43	0.142820
119.0	-0.184949D+00	-0.342494D+00	-118.37	0.151509
120.0	-0.174935D+00	-0.353085D+00	-116.36	0.155271
121.0	-0.161511D+00	-0.356884D+00	-114.35	0.153452
122.0	-0.144911D+00	-0.353223D+00	-112.31	0.145765
123.0	-0.125434D+00	-0.341542D+00	-110.17	0.132385
124.0	-0.103448D+00	-0.321405D+00	-107.84	0.114003
125.0	-0.793727D-01	-0.292520D+00	-105.18	0.091868
126.0	-0.536796D-01	-0.254757D+00	-101.90	0.067782
127.0	-0.268789D-01	-0.208157D+00	-97.36	0.044052
128.0	0.490579D-03	-0.152952D+00	-89.82	0.023395
129.0	0.278723D-01	-0.895702D-01	-72.71	0.008800
130.0	0.547042D-01	-0.186426D-01	-18.82	0.003340
131.0	0.804305D-01	0.589929D-01	36.26	0.009949
132.0	0.104515D+00	0.142292D+00	53.70	0.031170
133.0	0.126450D+00	0.230008D+00	61.20	0.068893
134.0	0.145774D+00	0.320701D+00	65.56	0.124099
135.0	0.162076D+00	0.412746D+00	68.56	0.196628

CIRCULAR PP POLARIZATION KA= 8.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.137451D+01	-0.997848D-01	-175.85	1.899227
136.0	-0.135783D+01	-0.184904D-01	-179.22	1.844040
137.0	-0.131681D+01	0.623579D-01	177.29	1.737875
138.0	-0.125160D+01	0.141877D+00	173.53	1.586626
139.0	-0.116277D+01	0.219225D+00	169.32	1.400105
140.0	-0.105135D+01	0.293613D+00	164.40	1.191552
141.0	-0.918767D+00	0.364312D+00	158.37	0.976856
142.0	-0.766855D+00	0.430660D+00	150.68	0.773535
143.0	-0.597834D+00	0.492070D+00	140.54	0.599537
144.0	-0.414259D+00	0.548933D+00	127.09	0.471951
145.0	-0.218988D+00	0.598125D+00	110.11	0.405710
146.0	-0.151235D-01	0.642007D+00	91.35	0.412401
147.0	0.194039D+00	0.679424D+00	74.06	0.499269
148.0	0.405075D+00	0.710212D+00	60.30	0.668486
149.0	0.614496D+00	0.734297D+00	50.08	0.916783
150.0	0.818818D+00	0.751653D+00	42.55	1.235445
151.0	0.101463D+01	0.762289D+00	36.92	1.610716
152.0	0.119867D+01	0.766652D+00	32.60	2.024574
153.0	0.136789D+01	0.764668D+00	29.21	2.455834
154.0	0.151959D+01	0.756726D+00	26.47	2.881502
155.0	0.165105D+01	0.743175D+00	24.23	3.278289
156.0	0.176051D+01	0.724413D+00	22.37	3.624161
157.0	0.184623D+01	0.700883D+00	20.79	3.899816
158.0	0.190708D+01	0.673065D+00	19.44	4.089976
159.0	0.194240D+01	0.641468D+00	18.28	4.184385
160.0	0.195204D+01	0.606623D+00	17.26	4.178451
161.0	0.193639D+01	0.569076D+00	16.38	4.073467
162.0	0.189635D+01	0.529388D+00	15.60	3.876402
163.0	0.183331D+01	0.488110D+00	14.91	3.599284
164.0	0.174914D+01	0.445800D+00	14.30	3.258222
165.0	0.164613D+01	0.403002D+00	13.76	2.872152
166.0	0.152697D+01	0.360247D+00	13.27	2.461407
167.0	0.139466D+01	0.318048D+00	12.85	2.046238
168.0	0.125249D+01	0.276893D+00	12.47	1.645396
169.0	0.110391D+01	0.237246D+00	12.13	1.274901
170.0	0.952507D+00	0.199541D+00	11.83	0.947087
171.0	0.801903D+00	0.164181D+00	11.57	0.670004
172.0	0.655675D+00	0.131532D+00	11.34	0.447210
173.0	0.517281D+00	0.101930D+00	11.15	0.277969
174.0	0.389982D+00	0.756691D-01	10.98	0.157812
175.0	0.276768D+00	0.530080D-01	10.84	0.079410
176.0	0.180293D+00	0.341664D-01	10.73	0.033673
177.0	0.102815D+00	0.193242D-01	10.64	0.010944
178.0	0.461440D-01	0.862208D-02	10.58	0.002204
179.0	0.116037D-01	0.216056D-02	10.55	0.000139
180.0	0.503379D-10	-0.167493D-09	-73.27	0.000000

CIRCULAR OP POLARIZATION KA= 8.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.162076D+00	0.412746D+00	68.56	0.196628
136.0	0.175007D+00	0.504354D+00	70.86	0.285001
137.0	0.184292D+00	0.593588D+00	72.75	0.386310
138.0	0.189731D+00	0.678385D+00	74.37	0.496204
139.0	0.191209D+00	0.756584D+00	75.82	0.608981
140.0	0.188698D+00	0.825957D+00	77.13	0.717811
141.0	0.182256D+00	0.884235D+00	78.35	0.815089
142.0	0.172031D+00	0.929150D+00	79.51	0.892914
143.0	0.158254D+00	0.958463D+00	80.62	0.943695
144.0	0.141237D+00	0.970906D+00	81.72	0.960859
145.0	0.121367D+00	0.961717D+00	82.81	0.939630
146.0	0.990937D-01	0.931679D+00	83.93	0.877845
147.0	0.749262D-01	0.878154D+00	85.12	0.776769
148.0	0.494162D-01	0.799621D+00	86.46	0.641836
149.0	0.231483D-01	0.694807D+00	88.09	0.483292
150.0	-0.327401D-02	0.562718D+00	90.33	0.316663
151.0	-0.292418D-01	0.402669D+00	94.15	0.162998
152.0	-0.541549D-01	0.214304D+00	104.18	0.048859
153.0	-0.774357D-01	-0.238177D-02	-178.24	0.006002
154.0	-0.985430D-01	-0.247030D+00	-111.75	0.070734
155.0	0.116984D+00	-0.518905D+00	-102.70	0.282948
156.0	-0.132327D+00	-0.816896D+00	-99.20	0.684829
157.0	-0.144211D+00	-0.113951D+01	-97.21	1.319284
158.0	-0.152355D+00	-0.148489D+01	-95.86	2.228117
159.0	-0.156564D+00	-0.185082D+01	-94.84	3.450046
160.0	-0.156735D+00	-0.223474D+01	-94.01	5.018617
161.0	-0.152859D+00	-0.263377D+01	-93.32	6.960129
162.0	-0.145023D+00	-0.304477D+01	-92.73	9.291660
163.0	-0.133405D+00	-0.346432D+01	-92.21	12.019312
164.0	-0.118274D+00	-0.388880D+01	-91.74	15.136761
165.0	-0.999912D-01	-0.431442D+01	-91.33	18.624222
166.0	-0.789539D-01	-0.473726D+01	-90.95	22.447906
167.0	-0.556838D-01	-0.515334D+01	-90.62	26.560017
168.0	-0.307166D-01	-0.555863D+01	-90.32	30.899343
169.0	-0.463899D-02	-0.594915D+01	-90.04	35.392444
170.0	0.219355D-01	-0.632099D+01	-89.80	39.955412
171.0	0.483805D-01	-0.667037D+01	-89.58	44.496166
172.0	0.760721D-01	-0.699369D+01	-89.39	48.917189
173.0	0.984035D-01	-0.728759D+01	-89.23	53.118630
174.0	0.120799D+00	-0.754897D+01	-89.08	57.001616
175.0	0.140730D+00	-0.777508D+01	-88.96	60.471664
176.0	0.157724D+00	-0.796349D+01	-88.87	63.442033
177.0	0.171378D+00	-0.811218D+01	-88.79	65.836866
178.0	0.181369D+00	-0.821956D+01	-88.74	67.593989
179.0	0.187460D+00	-0.828445D+01	-88.70	68.667234
180.0	0.189506D+00	-0.830616D+01	-88.69	69.028181

CIRCULAR PP POLARIZATION KA= 9.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	-0.649129D+00	0.651031D+00	134.92	0.845210
1.0	-0.648890D+00	0.652076D+00	134.86	0.846261
2.0	-0.648167D+00	0.655194D+00	134.69	0.849400
3.0	-0.646950D+00	0.660340D+00	134.41	0.854593
4.0	-0.645219D+00	0.667436D+00	134.03	0.861779
5.0	-0.642950D+00	0.676378D+00	133.55	0.870871
6.0	-0.640106D+00	0.687032D+00	132.97	0.881749
7.0	-0.636646D+00	0.699245D+00	132.32	0.894262
8.0	-0.632519D+00	0.712840D+00	131.58	0.908221
9.0	-0.627665D+00	0.727623D+00	130.78	0.923399
10.0	-0.622016D+00	0.743390D+00	129.92	0.939533
11.0	-0.615494D+00	0.759924D+00	129.01	0.956318
12.0	-0.608016D+00	0.777005D+00	128.04	0.973420
13.0	-0.599486D+00	0.794411D+00	127.04	0.990472
14.0	-0.589805D+00	0.811923D+00	126.00	1.007089
15.0	-0.578864D+00	0.829331D+00	124.91	1.022873
16.0	-0.566552D+00	0.846432D+00	123.80	1.037427
17.0	-0.552749D+00	0.863039D+00	122.64	1.050368
18.0	-0.537338D+00	0.878981D+00	121.44	1.061339
19.0	-0.520197D+00	0.894105D+00	120.19	1.070028
20.0	-0.501210D+00	0.908277D+00	118.89	1.076179
21.0	-0.480261D+00	0.921386D+00	117.53	1.079604
22.0	-0.457244D+00	0.933342D+00	116.10	1.080199
23.0	-0.432061D+00	0.944073D+00	114.59	1.077951
24.0	-0.404627D+00	0.953531D+00	112.99	1.072944
25.0	-0.374873D+00	0.961681D+00	111.30	1.065361
26.0	-0.342748D+00	0.968509D+00	109.49	1.055485
27.0	-0.308220D+00	0.974009D+00	107.56	1.043693
28.0	-0.271284D+00	0.978187D+00	105.50	1.030445
29.0	-0.231918D+00	0.981055D+00	103.30	1.016274
30.0	-0.190289D+00	0.982626D+00	100.96	1.001765
31.0	-0.146354D+00	0.982911D+00	98.47	0.987534
32.0	-0.100260D+00	0.981914D+00	95.83	0.974207
33.0	-0.521439D-01	0.979629D+00	93.05	0.962391
34.0	-0.217570D-02	0.976035D+00	90.13	0.952650
35.0	0.494447D-01	0.971096D+00	87.09	0.945473
36.0	0.102487D+00	0.964752D+00	83.94	0.941251
37.0	0.156694D+00	0.956923D+00	80.70	0.940255
38.0	0.211780D+00	0.947502D+00	77.40	0.942612
39.0	0.267437D+00	0.936360D+00	74.06	0.948293
40.0	0.323338D+00	0.923340D+00	70.70	0.957104
41.0	0.379136D+00	0.908263D+00	67.34	0.968685
42.0	0.434472D+00	0.890928D+00	64.00	0.982518
43.0	0.488977D+00	0.871116D+00	60.69	0.997942
44.0	0.542278D+00	0.848594D+00	57.42	1.014178
45.0	0.594000D+00	0.823119D+00	54.18	1.030362

CIRCULAR OP POLARIZATION KA= 9.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.318154D-11	0.266032D-11	39.90	0.000000
1.0	0.129179D-03	-0.280403D-03	-65.43	0.000000
2.0	0.511480D-03	-0.111245D-02	-65.31	0.000001
3.0	0.114623D-02	-0.246882D-02	-65.10	0.000007
4.0	0.202573D-02	-0.430487D-02	-64.80	0.000023
5.0	0.314105D-02	-0.665981D-02	-64.41	0.000053
6.0	0.447984D-02	-0.915848D-02	-63.93	0.000104
7.0	0.602657D-02	-0.120134D-01	-63.36	0.000181
8.0	0.776215D-02	-0.150273D-01	-62.68	0.000286
9.0	0.966372D-02	-0.180959D-01	-61.90	0.000421
10.0	0.117044D-01	-0.211109D-01	-60.99	0.000583
11.0	0.138533D-01	-0.239628D-01	-59.97	0.000765
12.0	0.160753D-01	-0.265447D-01	-58.80	0.000963
13.0	0.183313D-01	-0.287552D-01	-57.48	0.001163
14.0	0.205785D-01	-0.305011D-01	-55.99	0.001354
15.0	0.227707D-01	-0.317009D-01	-54.31	0.001523
16.0	0.248590D-01	-0.322871D-01	-52.41	0.001660
17.0	0.267925D-01	-0.322083D-01	-50.24	0.001755
18.0	0.285193D-01	-0.314316D-01	-47.78	0.001801
19.0	0.299878D-01	-0.299834D-01	-44.96	0.001796
20.0	0.311474D-01	-0.277505D-01	-41.70	0.001740
21.0	0.319507D-01	-0.248808D-01	-37.91	0.001640
22.0	0.323543D-01	-0.213824D-01	-33.46	0.001504
23.0	0.323206D-01	-0.173233D-01	-28.19	0.001345
24.0	0.318192D-01	-0.127899D-01	-21.90	0.001176
25.0	0.308285D-01	-0.788497D-02	-14.35	0.001013
26.0	0.293370D-01	-0.272552D-02	-5.31	0.000868
27.0	0.273444D-01	0.256032D-02	5.35	0.000754
28.0	0.248627D-01	0.783643D-02	17.49	0.000680
29.0	0.219167D-01	0.129622D-01	30.60	0.000648
30.0	0.185446D-01	0.177963D-01	43.82	0.000661
31.0	0.147979D-01	0.222007D-01	56.31	0.000712
32.0	0.107413D-01	0.260444D-01	67.59	0.000794
33.0	0.645154D-02	0.292071D-01	77.54	0.000895
34.0	0.201645D-02	0.315834D-01	86.35	0.001002
35.0	-0.246655D-02	0.330855D-01	94.26	0.001101
36.0	-0.689255D-02	0.336465D-01	101.58	0.001180
37.0	-0.111514D-01	0.332228D-01	108.55	0.001228
38.0	-0.151307D-01	0.317959D-01	115.45	0.001240
39.0	-0.187180D-01	0.293739D-01	122.51	0.001213
40.0	-0.218047D-01	0.259917D-01	129.99	0.001151
41.0	-0.242091D-01	0.217113D-01	138.21	0.001061
42.0	-0.260793D-01	0.166205D-01	147.89	0.000956
43.0	-0.270969D-01	0.108316D-01	158.21	0.000852
44.0	-0.272795D-01	0.447886D-02	170.68	0.000764
45.0	-0.265843D-01	-0.228459D-02	-175.09	0.000712

CIRCULAR PP POLARIZATION KA= 9.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.594000D+00	0.823119D+00	54.18	1.030362
46.0	0.643772D+00	0.794446D+00	50.98	1.045587
47.0	0.691227D+00	0.762333D+00	47.80	1.058946
48.0	0.736013D+00	0.726549D+00	44.63	1.069589
49.0	0.777789D+00	0.686885D+00	41.45	1.076765
50.0	0.816232D+00	0.643155D+00	38.24	1.079884
51.0	0.851042D+00	0.595215D+00	34.97	1.078553
52.0	0.881936D+00	0.542962D+00	31.62	1.072619
53.0	0.908659D+00	0.486347D+00	28.16	1.062195
54.0	0.930980D+00	0.425383D+00	24.56	1.047674
55.0	0.948691D+00	0.360151D+00	20.79	1.029724
56.0	0.961614D+00	0.290806D+00	16.83	1.009270
57.0	0.969594D+00	0.217584D+00	12.65	0.987456
58.0	0.972502D+00	0.140802D+00	8.24	0.965585
59.0	0.970232D+00	0.608656D-01	3.59	0.945055
60.0	0.962704D+00	-0.217352D-01	-1.29	0.927272
61.0	0.949859D+00	-0.106424D+00	-6.39	0.913557
62.0	0.931659D+00	-0.192542D+00	-11.68	0.905060
63.0	0.908088D+00	-0.279353D+00	-17.10	0.902662
64.0	0.879151D+00	-0.366051D+00	-22.61	0.906900
65.0	0.844873D+00	-0.451766D+00	-28.13	0.917903
66.0	0.805301D+00	-0.535578D+00	-33.63	0.935353
67.0	0.760503D+00	-0.616528D+00	-39.03	0.958472
68.0	0.710574D+00	-0.693531D+00	-44.31	0.986039
69.0	0.655634D+00	-0.765891D+00	-49.44	1.016444
70.0	0.595832D+00	-0.832326D+00	-54.40	1.047772
71.0	0.531354D+00	-0.891952D+00	-59.22	1.077915
72.0	0.462422D+00	-0.943862D+00	-63.90	1.104710
73.0	0.389300D+00	-0.987185D+00	-68.48	1.126089
74.0	0.312302D+00	-0.102113D+01	-72.99	1.140240
75.0	0.[illegible]793D+00	-0.104500D+01	-77.49	1.145759
76.0	0.148198D+00	-0.105822D+01	-82.[illegible]	1.141783
77.0	0.620011D-01	-0.106031D+01	-86[illegible]	1.128096
78.0	-0.262[illegible]D-01	-0.105096D+01	-91.43	1.105197
79.0	-0.115914D+00	-0.102999D+01	-96.42	1.074310
80.0	-0.206318D+00	-0.997388D+00	-101.69	1.037349
81.0	-0.296689D+00	-0.953309D+00	-107.29	0.996822
82.0	-0.386192D+00	-0.898071D+00	-113.27	0.955676
83.0	-0.473924D+00	-0.832168D+00	-119.66	0.917107
84.0	-0.558922D+00	-0.756258D+00	-126.47	0.884320
85.0	-0.640168D+00	-0.671167D+00	-133.65	0.860280
86.0	-0.716600D+00	-0.577875D+00	-141.12	0.847455
87.0	-0.787128D+00	-0.477504D+00	-148.76	0.847581
88.0	-0.850646D+00	-0.371309D+00	-156.42	0.861469
89.0	-0.906050D+00	-0.260656D+00	-163.95	0.888869
90.0	-0.952261D+00	-0.147005D+00	-171.22	0.928412

CIRCULAR OP POLARIZATION KA= 9.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.265843D-01	-0.228459D-02	-175.09	0.000712
46.0	-0.249896D-01	-0.929022D-02	-159.61	0.000711
47.0	-0.224975D-01	-0.163584D-01	-143.98	0.000774
48.0	-0.191350D-01	-0.233032D-01	-129.39	0.000909
49.0	-0.149546D-01	-0.299369D-01	-116.54	0.001120
50.0	-0.100350D-01	-0.360758D-01	-105.54	0.001402
51.0	-0.448005D-02	-0.415447D-01	-96.15	0.001746
52.0	0.158259D-02	-0.461829D-01	-88.04	0.002135
53.0	0.800327D-02	-0.498484D-01	-80.88	0.002549
54.0	0.146134D-01	-0.524228D-01	-74.42	0.002962
55.0	0.212291D-01	-0.538154D-01	-68.47	0.003347
56.0	0.276550D-01	-0.539662D-01	-62.87	0.003677
57.0	0.336895D-01	-0.528489D-01	-57.48	0.003928
58.0	0.391297D-01	-0.504727D-01	-52.21	0.004079
59.0	0.437768D-01	-0.468827D-01	-46.96	0.004114
60.0	0.474423D-01	-0.421597D-01	-41.63	0.004028
61.0	0.499534D-01	-0.364195D-01	-36.09	0.003822
62.0	0.511588D-01	-0.298099D-01	-30.23	0.003506
63.0	0.509344D-01	-0.225077D-01	-23.84	0.003101
64.0	0.491875D-01	-0.147141D-01	-16.65	0.002636
65.0	0.458620D-01	-0.664992D-02	-8.25	0.002148
66.0	0.409414D-01	0.145080D-02	2.03	0.001678
67.0	0.344517D-01	0.934721D-02	15.18	0.001274
68.0	0.264631D-01	0.167988D-01	32.41	0.000982
69.0	0.170901D-01	0.235725D-01	54.06	0.000848
70.0	0.649141D-02	0.294507D-01	77.57	0.000909
71.0	-0.513230D-02	0.342379D-01	98.53	0.001199
72.0	-0.175416D-01	0.377677D-01	114.91	0.001734
73.0	-0.304625D-01	0.399096D-01	127.35	0.002521
74.0	-0.435922D-01	0.405740D-01	137.05	0.003547
75.0	-0.566056D-01	0.397168D-01	144.94	0.004782
76.0	-0.691628D-01	0.373432D-01	151.63	0.006178
77.0	-0.809175D-01	0.335091D-01	157.50	0.007670
78.0	-0.915259D-01	0.283217D-01	162.81	0.009179
79.0	-0.100656D+00	0.219391D-01	167.70	0.010613
80.0	-0.107996D+00	0.145669D-01	172.32	0.011875
81.0	-0.113263D+00	0.645427D-02	176.74	0.012871
82.0	-0.116224D+00	-0.211160D-02	-178.96	0.013512
83.0	-0.116675D+00	-0.108131D-01	-174.71	0.013730
84.0	-0.114480D+00	-0.193108D-01	-170.43	0.013479
85.0	-0.109559D+00	-0.272529D-01	-166.03	0.012746
86.0	-0.101900D+00	-0.342861D-01	-161.40	0.011559
87.0	-0.915579D-01	-0.400669D-01	-156.37	0.009988
88.0	-0.786575D-01	-0.442736D-01	-150.63	0.008147
89.0	-0.633947D-01	-0.466172D-01	-143.67	0.006192
90.0	-0.460332D-01	-0.468536D-01	-134.49	0.004314

CIRCULAR PP POLARIZATION KA= 9.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	-0.952261D+00	-0.147005D+00	-171.22	0.928412
91.0	-0.988243D+00	-0.318889D-01	-178.15	0.977642
92.0	-0.101303D+01	0.831133D-01	175.31	1.033139
93.0	-0.102575D+01	0.196398D+00	169.16	1.090736
94.0	-0.102565D+01	0.306363D+00	163.37	1.145818
95.0	-0.101212D+01	0.411437D+00	157.88	1.193660
96.0	-0.984712D+00	0.510103D+00	152.61	1.229863
97.0	-0.943169D+00	0.600925D+00	147.50	1.250716
98.0	-0.887514D+00	0.682574D+00	142.44	1.253588
99.0	-0.817887D+00	0.753851D+00	137.33	1.237230
100.0	-0.734757D+00	0.813707D+00	132.08	1.201986
101.0	-0.638631D+00	0.861265D+00	126.57	1.149882
102.0	-0.531084D+00	0.895834D+00	120.66	1.084568
103.0	-0.412755D+00	0.916923D+00	114.23	1.011115
104.0	-0.285346D+00	0.924253D+00	107.16	0.935666
105.0	-0.150608D+00	0.917759D+00	99.32	0.864964
106.0	-0.105233D-01	0.897595D+00	90.67	0.805787
107.0	0.132719D+00	0.864133D+00	81.27	0.764380
108.0	0.276755D+00	0.817957D+00	71.31	0.745687
109.0	0.419081D+00	0.759852D+00	61.12	0.753004
110.0	0.557100D+00	0.690795D+00	51.12	0.787559
111.0	0.688170D+00	0.611935D+00	41.64	0.848043
112.0	0.809655D+00	0.524576D+00	32.94	0.930727
113.0	0.918981D+00	0.430154D+00	25.08	1.029558
114.0	0.101370D+01	0.330213D+00	18.04	1.136620
115.0	0.109153D+01	0.226376D+00	11.72	1.242683
116.0	0.115045D+01	0.120323D+00	5.97	1.338612
117.0	0.118872D+01	0.137564D-01	0.66	1.413245
118.0	0.120495D+01	-0.916253D-01	-4.35	1.460310
119.0	0.119816D+01	-0.194156D+00	-9.20	1.473286
120.0	0.116779D+01	-0.292230D+00	-14.05	1.449127
121.0	0.111375D+01	-0.384331D+00	-19.04	1.388158
122.0	0.103647D+01	-0.469052D+00	-24.35	1.294286
123.0	0.936868D+00	-0.545123D+00	-30.19	1.174881
124.0	0.816372D+00	-0.611428D+00	-36.83	1.040308
125.0	0.676919D+00	-0.667024D+00	-44.58	0.903141
126.0	0.520922D+00	-0.711152D+00	-53.78	0.777097
127.0	0.351236D+00	-0.743249D+00	-64.71	0.675785
128.0	0.171113D+00	-0.762953D+00	-77.36	0.611377
129.0	-0.158537D-01	-0.770108D+00	-91.18	0.593317
130.0	-0.205806D+00	-0.764761D+00	-105.06	0.627215
131.0	-0.394695D+00	-0.747158D+00	-117.85	0.714029
132.0	-0.578365D+00	-0.717737D+00	-128.86	0.849653
133.0	-0.752653D+00	-0.677114D+00	-138.02	1.024971
134.0	-0.913477D+00	-0.626073D+00	-145.57	1.226409
135.0	-0.105694D+01	-0.565545D+00	-151.85	1.436964

CIRCULAR OP POLARIZATION KA= 9.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	-0.460332D-01	-0.468536D-01	-134.49	0.004317
91.0	-0.269001D-01	-0.447941D-01	-120.99	0.002730
92.0	-0.638070D-02	-0.403146D-01	-98.99	0.001666
93.0	0.150897D-01	-0.333648D-01	-65.66	0.001341
94.0	0.370350D-01	-0.239740D-01	-32.92	0.001946
95.0	0.589487D-01	-0.122561D-01	-11.75	0.003625
96.0	0.803066D-01	0.158787D-02	1.13	0.006452
97.0	0.100579D+00	0.172704D-01	9.74	0.010414
98.0	0.119284D+00	0.344197D-01	16.10	0.015404
99.0	0.135804D+00	0.525853D-01	21.17	0.021208
100.0	0.149794D+00	0.712463D-01	25.44	0.027514
101.0	0.160800D+00	0.898219D-01	29.19	0.033925
102.0	0.168468D+00	0.107685D+00	32.52	0.039978
103.0	0.172519D+00	0.124177D+00	35.75	0.045183
104.0	0.172752D+00	0.138626D+00	38.75	0.049060
105.0	0.169058D+00	0.150367D+00	41.65	0.051191
106.0	0.161423D+00	0.158758D+00	44.52	0.051261
107.0	0.149930D+00	0.163208D+00	47.43	0.049116
108.0	0.134763D+00	0.163191D+00	50.45	0.044792
109.0	0.116200D+00	0.158270D+00	53.71	0.038552
110.0	0.946130D-01	0.148119D+00	57.43	0.030691
111.0	0.704591D-01	0.132535D+00	62.00	0.022530
112.0	0.442699D-01	0.111460D+00	68.34	0.014383
113.0	0.166403D-01	0.889897D-01	78.92	0.007500
114.0	-0.117851D-01	0.533839D-01	102.45	0.002989
115.0	-0.403286D-01	0.170734D-01	157.05	0.001918
116.0	-0.682955D-01	-0.233397D-01	-161.13	0.005209
117.0	-0.949925D-01	-0.670852D-01	-144.77	0.013524
118.0	-0.119746D+00	-0.113232D+00	-136.60	0.027161
119.0	-0.141919D+00	-0.160703D+00	-131.45	0.045966
120.0	-0.160931D+00	-0.208288D+00	-127.69	0.069283
121.0	-0.176272D+00	-0.254675D+00	-124.69	0.095931
122.0	-0.187518D+00	-0.298466D+00	-122.14	0.124245
123.0	-0.194345D+00	-0.338217D+00	-119.88	0.152161
124.0	-0.196537D+00	-0.372470D+00	-117.82	0.177361
125.0	-0.193996D+00	-0.399788D+00	-115.88	0.197465
126.0	-0.186745D+00	-0.418798D+00	-114.03	0.210266
127.0	-0.174930D+00	-0.428229D+00	-112.22	0.213981
128.0	-0.158817D+00	-0.426955D+00	-110.40	0.207514
129.0	-0.138786D+00	-0.414037D+00	-108.53	0.190689
130.0	-0.115326D+00	-0.388759D+00	-106.52	0.164434
131.0	-0.890162D-01	-0.350665D+00	-104.24	0.130891
132.0	-0.605246D-01	-0.299595D+00	-101.42	0.093420
133.0	-0.305701D-01	-0.235707D+00	-97.39	0.056492
134.0	0.763946D-04	-0.159505D+00	-89.97	0.025442
135.0	0.306229D-01	-0.718526D-01	-66.92	0.006101

CIRCULAR PP POLARIZATION KA= 9.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.105694D+01	-0.565545D+00	-151.85	1.436960
136.0	-0.117942D+01	-0.496589D+00	-157.17	1.637639
137.0	-0.127768D+01	-0.420375D+00	-161.79	1.809175
138.0	-0.134892D+01	-0.338158D+00	-165.93	1.933927
139.0	-0.139089D+01	-0.251257D+00	-169.76	1.997704
140.0	-0.140195D+01	-0.161029D+00	-173.45	1.991398
141.0	-0.138112D+01	-0.688457D-01	-177.15	1.912225
142.0	-0.132810D+01	0.239263D-01	178.97	1.764425
143.0	-0.124334D+01	0.115952D+00	174.67	1.559339
144.0	-0.112800D+01	0.205949D+00	169.65	1.314798
145.0	-0.983961D+00	0.292702D+00	163.43	1.053853
146.0	-0.813789D+00	0.375087D+00	155.25	0.802944
147.0	-0.620686D+00	0.452083D+00	143.93	0.589630
148.0	-0.408420D+00	0.522784D+00	128.00	0.440110
149.0	-0.181247D+00	0.586413D+00	107.18	0.376731
150.0	0.56189CD-01	0.642326D+00	85.00	0.415741
151.0	0.298965D+00	0.690023D+00	66.57	0.565511
152.0	0.541996D+00	0.729142D+00	53.38	0.825407
153.0	0.780160D+00	0.759467D+00	44.23	1.185440
154.0	0.100843D+01	0.780924D+00	37.75	1.626766
155.0	0.122196D+01	0.793573D+00	33.00	2.123002
156.0	0.141636D+01	0.797605D+00	29.35	2.642260
157.0	0.158756D+01	0.793334D+00	26.55	3.149715
158.0	0.173212D+01	0.781186D+00	24.28	3.610484
159.0	0.184726D+01	0.761685D+00	22.41	3.992544
160.0	0.193094D+01	0.735449D+00	20.85	4.269411
161.0	0.198189D+01	0.703170D+00	19.53	4.422322
162.0	0.199967D+01	0.665601D+00	18.41	4.441723
163.0	0.198471D+01	0.623550D+00	17.44	4.327905
164.0	0.193825D+01	0.577855D+00	16.60	4.090744
165.0	0.186235D+01	0.529384D+00	15.87	3.748576
166.0	0.175979D+01	0.479009D+00	15.23	3.326325
167.0	0.163409D+01	0.427606D+00	14.66	2.853082
168.0	0.148929D+01	0.376035D+00	14.17	2.359386
169.0	0.13299bD+01	0.325131D+00	13.74	1.874490
170.0	0.116099D+01	0.275699D+00	13.36	1.423902
171.0	0.987509D+00	0.228495D+00	13.03	1.027386
172.0	0.814726D+00	0.184282D+00	12.74	0.697723
173.0	0.647782D+00	0.143580D+00	12.50	0.440237
174.0	0.491620D+00	0.[illegible]103D+00	12.29	0.253161
175.0	0.350838D+00	[illegible]733325D-01	12.12	0.128762
176.0	0.229571D+00	0.467154D-01	11.98	0.055076
177.0	0.131369D+00	0.276232D-01	11.87	0.018021
178.0	0.591042D-01	0.123472D-01	11.80	0.003646
179.0	0.148845D-01	0.309737D-02	11.76	0.000231
180.0	0.658851D-10	0.579282D-10	41.32	0.000000

CIRCULAR OP POLARIZATION KA= 9.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.306229D-01	-0.718526D-01	-66.92	0.006101
136.0	0.602752D-01	0.260187D-01	23.35	0.004310
137.0	0.882994D-01	0.132508D+00	56.33	0.025348
138.0	0.113842D+00	0.245651D+00	65.14	0.073305
139.0	0.136356D+00	0.363140D+00	69.42	0.150463
140.0	0.155203D+00	0.482341D+00	72.16	0.256741
141.0	0.169899D+00	0.600332D+00	74.20	0.389265
142.0	0.180063D+00	0.713944D+00	75.81	0.542139
143.0	0.185439D+00	0.819806D+00	77.25	0.706470
144.0	0.185903D+00	0.914402D+00	78.51	0.870691
145.0	0.181468D+00	0.994133D+00	79.66	1.021232
146.0	0.172263D+00	0.105538D+01	80.73	1.143518
147.0	0.158630D+00	0.109459D+01	81.75	1.223298
148.0	0.140916D+00	0.110833D+01	82.75	1.248239
149.0	0.119663D+00	0.109334D+01	83.75	1.209715
150.0	0.954930D-01	0.104668D+01	84.79	1.104666
151.0	0.691110D-01	0.965734D+00	85.91	0.937438
152.0	0.412841D-01	0.848287D+00	87.21	0.721295
153.0	0.128203D-01	0.692614D+00	88.94	0.479878
154.0	-0.154534D-01	0.497516D+00	91.78	0.247761
155.0	-0.427190D-01	0.262374D+00	99.25	0.070665
156.0	-0.[illegible]31867D-01	-0.128136D-01	-169.26	0.004814
157.0	-0.911204D-01	-0.327403D+00	-105.55	0.115496
158.0	-0.110059D+00	-0.680088D+00	-99.26	0.474010
159.0	-0.126836D+00	-0.106889D+01	-96.77	1.158620
160.0	-0.138595D+00	-0.149118D+01	-95.31	2.242836
161.0	-0.145806D+00	-0.194368D+01	-94.29	3.799157
162.0	-0.148271D+00	-0.232250D+01	-93.50	5.890509
163.0	-0.145937D+00	-0.292320D+01	-92.86	8.566404
164.0	-0.138888D+00	-0.344082D+01	-92.31	11.858524
165.0	-0.127353D+00	-0.396996D+01	-91.84	15.776798
166.0	-0.111692D+00	-0.450486D+01	-91.42	20.306275
167.0	-0.923872D-01	-0.503949D+01	-91.05	25.405036
168.0	-0.700304D-01	-0.556763D+01	-90.72	31.003354
169.0	-0.453040D-01	-0.608294D+01	-90.43	37.004258
170.0	-0.139608D-01	-0.657915D+01	-90.17	43.285558
171.0	0.819848D-02	-0.705005D+01	-89.93	49.703309
172.0	0.353493D-01	-0.748968D+01	-89.73	56.096622
173.0	0.616680D-01	-0.789239D+01	-89.55	62.293609
174.0	0.863565D-01	-0.825292D+01	-89.40	68.118193
175.0	0.106666D+00	-0.856654D+01	-89.27	73.397454
176.0	0.127922D+00	-0.882909D+01	-89.17	77.969116
177.0	0.143539D+00	-0.903704D+01	-89.09	81.688779
178.0	0.155044D+00	-0.918763D+01	-89.03	84.436499
179.0	0.162090D+00	-0.927880D+01	-89.00	86.122335
180.0	0.164463D+00	-0.930932D+01	-88.99	86.690571

CIRCULAR PP POLARIZATION KA= 10.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.403835D+00	-0.875298D+00	-114.77	0.929230
1.0	-0.404319D+00	-0.875633D+00	-114.78	0.930207
2.0	-0.405770D+00	-0.876615D+00	-114.84	0.933104
3.0	-0.408191D+00	-0.878183D+00	-114.93	0.937826
4.0	-0.411581D+00	-0.880236D+00	-115.06	0.944215
5.0	-0.415943D+00	-0.882636D+00	-115.23	0.952054
6.0	-0.421282D+00	-0.885209D+00	-115.45	0.961075
7.0	-0.427604D+00	-0.887757D+00	-115.72	0.970958
8.0	-0.434915D+00	-0.890054D+00	-116.04	0.981348
9.0	-0.443228D+00	-0.891857D+00	-116.43	0.991861
10.0	-0.452556D+00	-0.892912D+00	-116.88	1.002098
11.0	-0.462915D+00	-0.892956D+00	-117.40	1.011660
12.0	-0.474320D+00	-0.891729D+00	-118.01	1.020165
13.0	-0.486806D+00	-0.888979D+00	-118.71	1.027263
14.0	-0.500381D+00	-0.884463D+00	-119.50	1.032656
15.0	-0.515073D+00	-0.877959D+00	-120.40	1.036112
16.0	-0.530901D+00	-0.869268D+00	-121.41	1.037483
17.0	-0.547882D+00	-0.858219D+00	-122.55	1.036715
18.0	-0.566026D+00	-0.844671D+00	-123.83	1.033855
19.0	-0.585334D+00	-0.828517D+00	-125.24	1.029057
20.0	-0.605795D+00	-0.809685D+00	-126.80	1.022578
21.0	-0.627382D+00	-0.788139D+00	-128.52	1.014771
22.0	-0.650051D+00	-0.763876D+00	-130.40	1.006074
23.0	-0.673735D+00	-0.736929D+00	-132.44	0.996983
24.0	-0.698344D+00	-0.707359D+00	-134.63	0.988041
25.0	-0.723759D+00	-0.675256D+00	-136.99	0.979797
26.0	-0.749832D+00	-0.640733D+00	-139.49	0.972786
27.0	-0.776383D+00	-0.603922D+00	-142.12	0.967493
28.0	-0.803202D+00	-0.564969D+00	-144.88	0.964324
29.0	-0.830043D+00	-0.524029D+00	-147.73	0.963578
30.0	-0.856629D+00	-0.481260D+00	-150.67	0.965425
31.0	-0.882652D+00	-0.436820D+00	-153.67	0.969835
32.0	-0.907774D+00	-0.390860D+00	-156.70	0.976825
33.0	-0.931633D+00	-0.343522D+00	-159.76	0.985947
34.0	-0.953845D+00	-0.294936D+00	-162.82	0.996807
35.0	-0.974008D+00	-0.245217D+00	-165.87	1.008824
36.0	-0.991712D+00	-0.194464D+00	-168.91	1.021309
37.0	-0.100654D+01	-0.142759D+00	-171.93	1.033505
38.0	-0.101808D+01	-0.901725D-01	-174.94	1.044621
39.0	-0.102593D+01	-0.367599D-01	-177.95	1.053884
40.0	-0.102970D+01	0.174299D-01	179.03	1.060591
41.0	-0.102904D+01	0.723521D-01	175.98	1.064153
42.0	-0.102361D+01	0.127960D+00	172.87	1.064148
43.0	-0.101313D+01	0.184197D+00	169.70	1.060356
44.0	-0.997354D+00	0.240991D+00	166.42	1.052791
45.0	-0.976098D+00	0.298247D+00	163.01	1.041718

CIRCULAR QP POLARIZATION KA= 10.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.134739D-10	0.611172D-11	155.60	0.000000
1.0	-0.117848D-03	0.306441D-03	111.04	0.000000
2.0	-0.470292D-03	0.121397D-02	111.18	0.000002
3.0	-0.105393D-02	0.268751D-02	111.41	0.000008
4.0	-0.186289D-02	0.466994D-02	111.75	0.000025
5.0	-0.288815D-02	0.708400D-02	112.18	0.000059
6.0	-0.411870D-02	0.983492D-02	112.72	0.000114
7.0	-0.553804D-02	0.128136D-01	113.37	0.000195
8.0	-0.712671D-02	0.159006D-01	114.14	0.000304
9.0	-0.886036D-02	0.189697D-01	115.04	0.000438
10.0	-0.107097D-01	0.218929D-01	116.07	0.000594
11.0	-0.126404D-01	0.245885D-01	117.25	0.000762
12.0	-0.146128D-01	0.268059D-01	118.60	0.000932
13.0	-0.165825D-01	0.285695D-01	120.13	0.001091
14.0	-0.185004D-01	0.297831D-01	121.88	0.001227
15.0	-0.203140D-01	0.302531D-01	123.88	0.001328
16.0	-0.219678D-01	0.300479D-01	126.17	0.001385
17.0	-0.234049D-01	0.290997D-01	128.81	0.001395
18.0	-0.245688D-01	0.274064D-01	131.87	0.001355
19.0	-0.254046D-01	0.249921D-01	135.47	0.001270
20.0	-0.258617D-01	0.219070D-01	139.73	0.001149
21.0	-0.258949D-01	0.182266D-01	144.86	0.001003
22.0	-0.254675D-01	0.140495D-01	151.12	0.000846
23.0	-0.245524D-01	0.949470D-02	158.86	0.000693
24.0	-0.231345D-01	0.469830D-02	168.52	0.000557
25.0	-0.212122D-01	-0.190732D-03	-179.48	0.000450
26.0	-0.187987D-01	-0.501527D-02	-165.06	0.000379
27.0	-0.159227D-01	-0.961503D-02	-148.87	0.000346
28.0	-0.126292D-01	-0.138320D-01	-132.40	0.000351
29.0	-0.897897D-02	-0.175156D-01	-117.14	0.000387
30.0	-0.504797D-02	-0.205283D-01	-103.82	0.000447
31.0	-0.926060D-03	-0.227505D-01	-92.33	0.000518
32.0	0.328497D-02	-0.240851D-01	-82.23	0.000591
33.0	0.747395D-02	-0.244615D-01	-73.01	0.000654
34.0	0.115234D-01	-0.238387D-01	-64.20	0.000701
35.0	0.153128D-01	-0.222079D-01	-55.41	0.000728
36.0	0.187230D-01	-0.195936D-01	-46.30	0.000734
37.0	0.216399D-01	-0.160539D-01	-36.57	0.000726
38.0	0.239586D-01	-0.116798D-01	-25.99	0.000710
39.0	0.255882D-01	-0.659292D-02	-14.45	0.000698
40.0	0.264552D-01	-0.942896D-03	-2.04	0.000701
41.0	0.265074D-01	0.509711D-02	10.88	0.000729
42.0	0.257172D-01	0.113352D-01	23.79	0.000790
43.0	0.240839D-01	0.175667D-01	36.11	0.000889
44.0	0.216355D-01	0.235303D-01	47.46	0.001024
45.0	0.184294D-01	0.291652D-01	57.71	0.001190

CIRCULAR PP POLARIZATION KA= 10.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.976098D+00	0.298247D-00	163.01	1.041718
46.0	-0.949228D+00	0.355839D+00	159.45	1.027655
47.0	-0.916674D+00	0.413600D+00	155.72	1.011356
48.0	-0.878429D+00	0.471319D+00	151.78	0.993779
49.0	-0.834552D+00	0.528734D+00	147.64	0.976037
50.0	-0.785169D+00	0.585524D+00	143.29	0.959330
51.0	-0.730472D+00	0.641310D+00	138.72	0.944868
52.0	-0.670716D+00	0.695649D+00	133.95	0.933787
53.0	-0.606218D+00	0.748036D+00	129.02	0.927058
54.0	-0.537351D+00	0.797908D+00	123.96	0.925404
55.0	-0.464544D+00	0.844646D+00	118.81	0.929228
56.0	-0.383270D+00	0.887582D+00	113.63	0.938556
57.0	-0.309045D+00	0.926011D+00	108.46	0.953004
58.0	-0.227424D+00	0.959198D+00	103.34	0.971781
59.0	-0.143987D+00	0.986397D+00	98.30	0.993711
60.0	-0.593440D-01	0.100686D+01	93.37	1.017295
61.0	0.258809D-01	0.101987D+01	88.55	1.040810
62.0	0.111048D+00	0.102474D+01	83.82	1.062423
63.0	0.195509D+00	0.102084D+01	79.16	1.080331
64.0	0.278611D+00	0.100761D+01	74.54	1.092911
65.0	0.359701D+00	0.984622D+00	69.93	1.098866
66.0	0.438126D+00	0.951529D+00	65.28	1.097362
67.0	0.513236D+00	0.908138D+00	60.53	1.088126
68.0	0.584390D+00	0.854406D+00	55.63	1.071521
69.0	0.650953D+00	0.790455D+00	50.53	1.048559
70.0	0.712297D+00	0.716588D+00	45.17	1.020866
71.0	0.767809D+00	0.633290D+00	39.52	0.990587
72.0	0.816884D+00	0.541238D+00	33.53	0.960238
73.0	0.858938D+00	0.441297D+00	27.19	0.932517
74.0	0.893402D+00	0.334519D+00	20.53	0.910065
75.0	0.919734D+00	0.222129D+00	13.58	0.895251
76.0	0.937421D+00	0.105517D+00	6.42	0.889892
77.0	0.945990D+00	-0.137848D-01	-0.83	0.895087
78.0	0.945014D+00	-0.134122D+00	-8.08	0.911040
79.0	0.934124D+00	-0.253744D+00	-15.20	0.936974
80.0	0.913022D+00	-0.370837D+00	-22.11	0.971130
81.0	0.881494D+00	-0.483555D+00	-28.75	1.010858
82.0	0.839426D+00	-0.590053D+00	-35.10	1.052798
83.0	0.786815D+00	-0.688530D+00	-41.19	1.093151
84.0	0.723791D+00	-0.777260D+00	-47.04	1.128007
85.0	0.650628D+00	-0.854636D+00	-52.72	1.153719
86.0	0.567760D+00	-0.919200D+00	-58.30	1.167280
87.0	0.475794D+00	-0.969685D+00	-63.85	1.166669
88.0	0.375520D+00	-0.100504D+01	-69.51	1.151123
89.0	0.267918D+00	-0.102447D+01	-75.34	1.121315
90.0	0.154164D+00	-0.102744D+01	-81.47	1.079394

CIRCULAR CP POLARIZATION KA= 10.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.184294D-01	0.291652D-01	57.71	0.001190
46.0	0.145524D-01	0.341180D-01	66.90	0.001376
47.0	0.101194D-01	0.382499D-01	75.18	0.001565
48.0	0.527072D-02	0.413932D-01	82.74	0.001741
49.0	0.169447D-03	0.434079D-01	89.78	0.001884
50.0	-0.500354D-02	0.441871D-01	96.46	0.001978
51.0	-0.100546D-01	0.436617D-01	102.97	0.002007
52.0	-0.147834D-01	0.418039D-01	109.48	0.001966
53.0	-0.189897D-01	0.386295D-01	116.18	0.001853
54.0	-0.224802D-01	0.341986D-01	123.32	0.001675
55.0	-0.250760D-01	0.286148D-01	131.23	0.001448
56.0	-0.266196D-01	0.220233D-01	140.40	0.001194
57.0	-0.269820D-01	0.146071D-01	151.57	0.000941
58.0	-0.260688D-01	0.658165D-02	165.83	0.000725
59.0	-0.238256D-01	-0.181142D-02	-175.65	0.000573
60.0	-0.202426D-01	-0.103119D-01	-153.01	0.000516
61.0	-0.153573D-01	-0.136494D-01	-129.47	0.000584
62.0	-0.925662D-02	-0.265528D-01	-109.22	0.000791
63.0	-0.207627D-02	-0.337594D-01	-93.52	0.001144
64.0	0.600052D-02	-0.400247D-01	-81.47	0.001638
65.0	0.147467D-01	-0.451314D-01	-71.91	0.002254
66.0	0.238964D-01	-0.486983D-01	-63.96	0.002962
67.0	0.331520D-01	-0.511875D-01	-57.07	0.003719
68.0	0.421924D-01	-0.519114D-01	-50.90	0.004475
69.0	0.506824D-01	-0.510056D-01	-45.20	0.005173
70.0	0.582833D-01	-0.485875D-01	-39.82	0.005758
71.0	0.646648D-01	-0.446473D-01	-34.62	0.006175
72.0	0.695159D-01	-0.393554D-01	-29.52	0.006381
73.0	0.725572D-01	-0.329095D-01	-24.40	0.006348
74.0	0.735517D-01	-0.255500D-01	-19.16	0.006063
75.0	0.723157D-01	-0.175626D-01	-13.65	0.005538
76.0	0.687274D-01	-0.926415D-02	-7.68	0.004809
77.0	0.627349D-01	-0.992216D-03	-0.91	0.003937
78.0	0.543621D-01	0.690669D-02	7.24	0.003003
79.0	0.437113D-01	0.140904D-01	17.87	0.002109
80.0	0.309650D-01	0.202348D-01	33.16	0.001368
81.0	0.163837D-01	0.250470D-01	56.81	0.000896
82.0	0.301881D-03	0.282789D-01	89.39	0.000800
83.0	-0.168791D-01	0.297389D-01	119.58	0.001169
84.0	-0.347007D-01	0.293024D-01	139.82	0.002063
85.0	-0.526589D-01	0.269203D-01	152.92	0.003498
86.0	-0.702184D-01	0.226253D-01	162.14	0.005443
87.0	-0.868285D-01	0.165347D-01	169.22	0.007813
88.0	-0.101939D+00	0.885114D-02	175.04	0.010470
89.0	-0.115021D+00	-0.140733D-03	-179.93	0.013230
90.0	-0.125579D+00	-0.100806D-01	-175.41	0.015872

CIRCULAR PP POLARIZATION KA= 10.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.154164D+00	-0.102744D+01	-81.47	1.079394
91.0	0.356243D-01	-0.101371D+01	-87.99	1.028878
92.0	-0.861436D-01	-0.983354D+00	-95.01	0.978406
93.0	-0.209409D+00	-0.936744D+00	-102.60	0.921342
94.0	-0.332281D+00	-0.876569D+00	-110.80	0.875281
95.0	-0.452736D+00	-0.797820D+00	-119.57	0.841486
96.0	-0.568648D+00	-0.707779D+00	-128.78	0.828311
97.0	-0.677821D+00	-0.606300D+00	-138.20	0.826677
98.0	-0.778036D+00	-0.494279D+00	-147.57	0.849652
99.0	-0.867093D+00	-0.374627D+00	-156.63	0.892292
100.0	-0.942880D+00	-0.249223D+00	-165.19	0.951136
101.0	-0.100340D+01	-0.120384D+00	-173.16	1.021295
102.0	-0.104684D+01	0.949119D-02	179.48	1.095955
103.0	-0.107164D+01	0.137966D+00	172.66	1.167445
104.0	-0.107654D+01	0.262617D+00	166.29	1.227914
105.0	-0.106064D+01	0.381084D+00	160.24	1.270183
106.0	-0.102342D+01	0.491118D+00	154.36	1.288589
107.0	-0.964821D+00	0.590634D+00	148.53	1.279729
108.0	-0.885249D+00	0.677751D+00	142.56	1.243012
109.0	-0.785611D+00	0.750833D+00	136.30	1.180935
110.0	-0.667322D+00	0.808528D+00	129.53	1.099036
111.0	-0.532303D+00	0.849792D+00	122.06	1.005494
112.0	-0.382964D+00	0.873918D+00	113.66	0.910398
113.0	-0.222171D+00	0.880545D+00	104.16	0.824720
114.0	-0.532055D-01	0.869672D+00	93.50	0.759160
115.0	0.120302D+00	0.841652D+00	81.87	0.722850
116.0	0.294442D+00	0.797189D+00	69.73	0.722206
117.0	0.465115D+00	0.737319D+00	57.76	0.759972
118.0	0.628127D+00	0.663391D+00	46.56	0.834630
119.0	0.779296D+00	0.577030D+00	36.52	0.940266
120.0	0.914567D+00	0.480109D+00	27.70	1.066936
121.0	0.103012D+01	0.374702D+00	19.99	1.201550
122.0	0.112249D+01	0.263043D+00	13.19	1.329186
123.0	0.118869D+01	0.147474D+00	7.07	1.434732
124.0	0.122628D+01	0.303940D-01	1.42	1.504676
125.0	0.123348D+01	-0.857873D-01	-3.98	1.528838
126.0	0.120928D+01	-0.198708D+00	-9.33	1.501841
127.0	0.115344D+01	-0.306097D+00	-14.86	1.424109
128.0	0.106656D+01	-0.405827D+00	-20.83	1.302249
129.0	0.950125D+00	-0.495951D+00	-27.56	1.148706
130.0	0.806448D+00	-0.574747D+00	-35.48	0.980692
131.0	0.638671D+00	-0.640745D+00	-45.09	0.818455
132.0	0.450700D+00	-0.692761D+00	-56.95	0.683048
133.0	0.247123D+00	-0.729910D+00	-71.30	0.593838
134.0	0.331047D-01	-0.751622D+00	-87.48	0.566031
135.0	-0.185741D+00	-0.757650D+00	-103.77	0.608533

CIRCULAR OP POLARIZATION KA= 10.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.125579D+00	-0.100806D-01	-175.41	0.015872
91.0	-0.133175D+00	-0.205420D-01	-171.23	0.018158
92.0	-0.137441D+00	-0.310453D-01	-167.27	0.019854
93.0	-0.138096D+00	-0.410731D-01	-163.44	0.020757
94.0	-0.134951D+00	-0.500884D-01	-159.64	0.020721
95.0	-0.127936D+00	-0.575547D-01	-155.78	0.019680
96.0	-0.117090D+00	-0.629574D-01	-151.73	0.017674
97.0	-0.102572D+00	-0.658254D-01	-147.31	0.014854
98.0	-0.846615D-01	-0.657533D-01	-142.16	0.011491
99.0	-0.637508D-01	-0.624223D-01	-135.60	0.007961
100.0	-0.403387D-01	-0.556193D-01	-125.95	0.004721
101.0	-0.150209D-01	-0.452532D-01	-108.36	0.002273
102.0	0.115289D-01	-0.313686D-01	-69.82	0.001117
103.0	0.385753D-01	-0.181548D-01	-20.15	0.001688
104.0	0.653429D-01	0.604968D-02	5.29	0.004306
105.0	0.910390D-01	0.287576D-01	17.53	0.009115
106.0	0.114879D+00	0.533390D-01	24.91	0.016042
107.0	0.136109D+00	0.790330D-01	30.14	0.024772
108.0	0.154034D+00	0.104965D+00	34.27	0.034748
109.0	0.168039D+00	0.130169D+00	37.76	0.045181
110.0	0.177613D+00	0.153615D+00	40.86	0.055144
111.0	0.182363D+00	0.174243D+00	43.70	0.063617
112.0	0.182039D+00	0.190995D+00	46.38	0.069617
113.0	0.176536D+00	0.202858D+00	48.97	0.072316
114.0	0.165907D+00	0.208899D+00	51.54	0.071164
115.0	0.150365D+00	0.209306D+00	54.18	0.066001
116.0	0.130276D+00	0.200430D+00	56.98	0.057144
117.0	0.106157D+00	0.184817D+00	60.13	0.045427
118.0	0.786588D-01	0.161245D+00	64.00	0.032187
119.0	0.485493D-01	0.129746D+00	69.48	0.019191
120.0	0.166920D-01	0.906297D-01	79.56	0.008492
121.0	-0.159800D-01	0.444982D-01	109.75	0.002235
122.0	-0.484927D-01	-0.775324D-02	-170.92	0.002412
123.0	-0.798613D-01	-0.649387D-01	-140.88	0.010595
124.0	-0.109122D+00	-0.125598D+00	-130.98	0.027682
125.0	-0.135363D+00	-0.188019D+00	-125.75	0.053674
126.0	-0.157755D+00	-0.250276D+00	-122.22	0.087525
127.0	-0.175580D+00	-0.310274D+00	-119.50	0.127098
128.0	-0.188254D+00	-0.365800D+00	-117.23	0.169289
129.0	-0.195352D+00	-0.414585D+00	-115.23	0.210043
130.0	-0.196621D+00	-0.454374D+00	-113.40	0.245115
131.0	-0.191988D+00	-0.482998D+00	-111.68	0.270147
132.0	-0.181573D+00	-0.498452D+00	-110.02	0.281423
133.0	-0.165677D+00	-0.498967D+00	-108.37	0.276417
134.0	-0.144782D+00	-0.485092D+00	-106.68	0.254340
135.0	-0.119534D+00	-0.459762D+00	-104.88	0.216574

CIRCULAR PP POLARIZATION KA= 10.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.185741D+00	-0.757650D+00	-103.77	0.608533
136.0	-0.403496D+00	-0.748064D+00	-118.34	0.722409
137.0	-0.614093D+00	-0.723248D+00	-130.33	0.900198
138.0	-0.811495D+00	-0.683881D+00	-139.88	1.126213
139.0	-0.989854D+00	-0.630915D+00	-147.49	1.377864
140.0	-0.114371D+01	-0.565554D+00	-153.69	1.627920
141.0	-0.126813D+01	-0.489218D+00	-158.90	1.847491
142.0	-0.135890D+01	-0.403508D+00	-163.46	2.009428
143.0	-0.141263D+01	-0.310173D+00	-167.62	2.091738
144.0	-0.142691D+01	-0.211062D+00	-171.59	2.080624
145.0	-0.140037D+01	-0.108089D+00	-175.59	1.972733
146.0	-0.133278D+01	-0.318998D-02	-179.86	1.776315
147.0	-0.122508D+01	0.101717D+00	175.25	1.511069
148.0	-0.107921D+01	0.204770D+00	169.26	1.206624
149.0	-0.898455D+00	0.304201D+00	161.29	0.899760
150.0	-0.686976D+00	0.398366D+00	149.89	0.630631
151.0	-0.449894D+00	0.485775D+00	132.80	0.438382
152.0	-0.193119D+00	0.565115D+00	108.87	0.356650
153.0	0.768274D-01	0.635274D+00	83.10	0.409476
154.0	0.352993D+00	0.695350D+00	63.09	0.608115
155.0	0.626207D+00	0.744665D+00	49.85	0.949170
156.0	0.895296D+00	0.782769D+00	41.16	1.414283
157.0	0.114731D+01	0.809441D+00	35.20	1.971505
158.0	0.137771D+01	0.824683D+00	30.90	2.578199
159.0	0.158064D+01	0.828712D+00	27.67	3.185202
160.0	0.175105D+01	0.821950D+00	25.15	3.741768
161.0	0.188487D+01	0.805004D+00	23.13	4.200749
162.0	0.197917D+01	0.778652D+00	21.48	4.523406
163.0	0.203225D+01	0.743821D+00	20.10	4.683306
164.0	0.204368D+01	0.701561D+00	18.95	4.668831
165.0	0.201435D+01	0.653027D+00	17.96	4.484039
166.0	0.194639D+01	0.599453D+00	17.12	4.147773
167.0	0.184317D+01	0.542122D+00	16.39	3.691156
168.0	0.170913D+01	0.482351D+00	15.76	3.153794
169.0	0.154970D+01	0.421460D+00	15.21	2.579187
170.0	0.137104D+01	0.360752D+00	14.74	2.009901
171.0	0.117993D+01	0.301491D+00	14.33	1.483128
172.0	0.983454D+00	0.244884D+00	13.96	1.027150
173.0	0.788834D+00	0.192057D+00	13.68	0.659145
174.0	0.603147D+00	0.144048D+00	13.43	0.384536
175.0	0.433105D+00	0.101781D+00	13.22	0.197940
176.0	0.284824D+00	0.660630D-01	13.06	0.085489
177.0	0.163616D+00	0.375670D-01	12.93	0.028181
178.0	0.738132D-01	0.168262D-01	12.84	0.005732
179.0	0.186190D-01	0.422606D-02	12.79	0.000365
180.0	0.322386D-09	-0.144101D-09	-24.08	0.000000

CIRCULAR OP POLARIZATION KA= 10.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.119534D+00	-0.449762D+00	-104.88	0.216574
136.0	-0.907211D-01	-0.398367D+00	-102.83	0.166926
137.0	-0.592529D-01	-0.328808D+00	-100.22	0.111626
138.0	-0.261278D-01	-0.241549D+00	-96.17	0.059028
139.0	0.759793D-02	-0.137648D+00	-86.84	0.019005
140.0	0.408458D-01	-0.187804D-01	-24.69	0.002021
141.0	0.725511D-01	0.112753D+00	57.24	0.017977
142.0	0.101699D+00	0.254040D+00	68.18	0.074879
143.0	0.127358D+00	0.401584D+00	72.40	0.177490
144.0	0.148714D+00	0.551347D+00	74.90	0.326100
145.0	0.165097D+00	0.698816D+00	76.71	0.515601
146.0	0.176005D+00	0.839078D+00	78.15	0.735030
147.0	0.181122D+00	0.966919D+00	79.39	0.967737
148.0	0.180329D+00	0.107693D+01	80.49	1.192286
149.0	0.173707D+00	0.116361D+01	81.51	1.384160
150.0	0.161538D+00	0.122153D+01	82.47	1.518235
151.0	0.144294D+00	0.124544D+01	83.39	1.571940
152.0	0.122619D+00	0.123040D+01	84.31	1.528910
153.0	0.973085D-01	0.117192D+01	85.25	1.382872
154.0	0.692824D-01	0.106613D+01	86.28	1.141426
155.0	0.395496D-01	0.909823D+00	87.51	0.829342
156.0	0.917500D-02	0.700649D+00	89.25	0.490993
157.0	-0.207598D-01	0.437162D+00	92.72	0.191542
158.0	-0.491941D-01	0.116918D+00	112.47	0.016562
159.0	-0.751268D-01	-0.253467D+00	-106.51	0.069890
160.0	-0.976515D-01	-0.678281D+00	-98.19	0.469601
161.0	-0.115990D+00	-0.115270D+01	-95.75	1.342168
162.0	-0.129518D+00	-0.167279D+01	-94.43	2.815015
163.0	-0.137790D+00	-0.223358D+01	-93.53	5.007852
164.0	-0.140555D+00	-0.282905D+01	-92.84	8.023304
165.0	-0.137764D+00	-0.345232D+01	-92.29	11.937465
166.0	-0.129570D+00	-0.409565D+01	-91.81	16.791100
167.0	-0.116326D+00	-0.475065D+01	-91.40	22.582191
168.0	-0.985695D-01	-0.540840D+01	-91.04	29.260537
169.0	-0.770022D-01	-0.605962D+01	-90.73	36.724961
170.0	-0.524644D-01	-0.669484D+01	-90.45	44.823575
171.0	-0.259035D-01	-0.730456D+01	-90.20	53.357302
172.0	0.166121D-02	-0.787951D+01	-89.99	62.086666
173.0	0.291761D-01	-0.841075D+01	-89.80	70.741585
174.0	0.555928D-01	-0.888992D+01	-89.64	79.033688
175.0	0.799071D-01	-0.930935D+01	-89.51	86.670443
176.0	0.101196D+00	-0.966230D+01	-89.40	93.370240
177.0	0.118653D+00	-0.994301D+01	-89.32	98.877467
178.0	0.131617D+00	-0.101469D+02	-89.26	102.976566
179.0	0.139596D+00	-0.102706D+02	-89.22	105.504129
180.0	0.142290D+00	-0.103120D+02	-89.21	106.358200

CIRCULAR PP POLARIZATION KA= 15.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.176440D+00	0.945586D+00	100.57	0.925264
1.0	-0.175373D+00	0.946558D+00	100.50	0.926728
2.0	-0.172179D+00	0.949422D+00	100.28	0.931047
3.0	-0.166871D+00	0.954024D+00	99.92	0.938008
4.0	-0.159466D+00	0.960120D+00	99.43	0.947260
5.0	-0.149986D+00	0.967383D+00	98.81	0.958325
6.0	-0.138449D+00	0.975422D+00	98.08	0.970617
7.0	-0.124864D+00	0.983805D+00	97.23	0.983464
8.0	-0.109229D+00	0.992075D+00	96.28	0.996145
9.0	-0.915247D-01	0.999776D+00	95.23	1.007928
10.0	-0.717122D-01	0.100647D+01	94.08	1.018124
11.0	-0.497353D-01	0.101176D+01	92.81	1.026131
12.0	-0.255216D-01	0.101530D+01	91.44	1.031490
13.0	0.101207D-02	0.101682D+01	89.94	1.033924
14.0	0.299522D-01	0.101611D+01	88.31	1.033369
15.0	0.613787D-01	0.101303D+01	86.53	1.029989
16.0	0.953534D-01	0.100751D+01	84.59	1.024174
17.0	0.131908D+00	0.999556D+00	82.48	1.016512
18.0	0.171033D+00	0.989191D+00	80.19	1.007750
19.0	0.212663D+00	0.976476D+00	77.71	0.998731
20.0	0.256673D+00	0.961479D+00	75.05	0.990323
21.0	0.302867D+00	0.944253D+00	72.22	0.983342
22.0	0.350975D+00	0.924820D+00	69.22	0.978475
23.0	0.400656D+00	0.903150D+00	66.08	0.976206
24.0	0.451498D+00	0.879154D+00	62.82	0.976763
25.0	0.503028D+00	0.852671D+00	59.46	0.980084
26.0	0.554720D+00	0.823466D+00	56.03	0.985810
27.0	0.606011D+00	0.791237D+00	52.55	0.993305
28.0	0.656315D+00	0.755623D+00	49.02	1.001715
29.0	0.705032D+00	0.716225D+00	45.45	1.010048
30.0	0.751572D+00	0.672621D+00	41.83	1.017280
31.0	0.795358D+00	0.624403D+00	38.18	1.022474
32.0	0.835842D+00	0.571199D+00	34.35	1.024900
33.0	0.872508D+00	0.512707D+00	30.44	1.024138
34.0	0.904875D+00	0.448729D+00	26.38	1.020156
35.0	0.932498D+00	0.379196D+00	22.13	1.013341
36.0	0.954960D+00	0.304193D+00	17.67	1.004482
37.0	0.971869D+00	0.223980D+00	12.96	0.994696
38.0	0.982843D+00	0.139002D+00	8.05	0.985301
39.0	0.987505D+00	0.498950D-01	2.89	0.977656
40.0	0.985474D+00	-0.425223D-01	-2.47	0.972968
41.0	0.976359D+00	-0.137257D+00	-8.00	0.972116
42.0	0.959755D+00	-0.233164D+00	-13.65	0.975495
43.0	0.935252D+00	-0.328972D+00	-19.38	0.982919
44.0	0.902442D+00	-0.423317D+00	-25.13	0.993600
45.0	0.860937D+00	-0.514777D+00	-30.88	1.006208

CIRCULAR OP POLARIZATION KA= 15.000

THETA	REAL	IMAG	PHASE	RCS
0.0	0.673390D-11	0.916982D-12	7.75	0.000000
1.0	0.307956D-04	-0.379109D-03	-85.36	0.000000
2.0	0.127135D-03	-0.148690D-02	-85.11	0.000002
3.0	0.300139D-03	-0.323677D-02	-84.70	0.000011
4.0	0.565995D-03	-0.549109D-02	-84.11	0.000030
5.0	0.942717D-03	-0.807085D-02	-83.34	0.000066
6.0	0.144614D-02	-0.107683D-01	-82.35	0.000118
7.0	0.208565D-02	-0.133615D-01	-81.13	0.000183
8.0	0.286009D-02	-0.156304D-01	-79.63	0.000252
9.0	0.375455D-02	-0.173725D-01	-77.80	0.000316
10.0	0.473822D-02	-0.184179D-01	-75.57	0.000362
11.0	0.576404D-02	-0.186421D-01	-72.82	0.000381
12.0	0.676997D-02	-0.179760D-01	-69.36	0.000369
13.0	0.768233D-02	-0.164118D-01	-64.92	0.000328
14.0	0.842073D-02	-0.140057D-01	-58.98	0.000267
15.0	0.890446D-02	-0.108748D-01	-50.69	0.000198
16.0	0.905984D-02	-0.719121D-02	-38.44	0.000134
17.0	0.882777D-02	-0.317097D-02	-19.76	0.000088
18.0	0.817097D-02	0.939619D-03	6.56	0.000068
19.0	0.703008D-02	0.488037D-02	34.58	0.000074
20.0	0.557797D-02	0.839495D-02	56.40	0.000102
21.0	0.372165D-02	0.112888D-01	71.69	0.000140
22.0	0.160154D-02	0.132458D-01	83.11	0.000178
23.0	-0.662309D-03	0.142432D-01	92.66	0.000203
24.0	-0.292679D-02	0.141628D-01	101.68	0.000209
25.0	-0.503490D-02	0.129979D-01	111.17	0.000194
26.0	-0.682692D-02	0.108156D-01	122.26	0.000164
27.0	-0.815277D-02	0.775423D-02	136.44	0.000127
28.0	-0.888475D-02	0.401508D-02	155.68	0.000095
29.0	-0.892947D-02	-0.150018D-03	-179.04	0.000080
30.0	-0.823804D-02	-0.445529D-02	-151.59	0.000088
31.0	-0.681358D-02	-0.860046D-02	-128.39	0.000120
32.0	-0.471512D-02	-0.122918D-01	-110.99	0.000173
33.0	-0.205738D-02	-0.152634D-01	-97.68	0.000237
34.0	0.993766D-03	-0.172968D-01	-86.71	0.000300
35.0	0.423027D-02	-0.182383D-01	-76.94	0.000351
36.0	0.741475D-02	-0.180116D-01	-67.62	0.000379
37.0	0.102965D-01	-0.166254D-01	-58.23	0.000382
38.0	0.126298D-01	-0.141752D-01	-48.30	0.000360
39.0	0.141927D-01	-0.108383D-01	-37.37	0.000319
40.0	0.148054D-01	-0.686319D-02	-24.87	0.000266
41.0	0.143469D-01	-0.255256D-02	-10.09	0.000212
42.0	0.127672D-01	0.175767D-02	7.84	0.000166
43.0	0.100960D-01	0.572304D-02	29.55	0.000135
44.0	0.644479D-02	0.901669D-02	54.44	0.000123
45.0	0.208334D-02	0.113552D-01	79.99	0.000133

CIRCULAR PP POLARIZATION KA= 15.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.860937D+00	-0.514777D+00	-30.88	1.006208
46.0	0.810394D+00	-0.601907D+00	-36.60	1.019031
47.0	0.750544D+00	-0.683281D+00	-42.31	1.030190
48.0	0.681232D+00	-0.757521D+00	-48.04	1.037915
49.0	0.602448D+00	-0.823332D+00	-53.81	1.040820
50.0	0.514376D+00	-0.879526D+00	-59.68	1.038150
51.0	0.417430D+00	-0.925044D+00	-65.71	1.029955
52.0	0.312281D+00	-0.958970D+00	-71.96	1.017143
53.0	0.199893D+00	-0.980541D+00	-78.48	1.001417
54.0	0.81535CD-01	-0.989150D+00	-85.29	0.985066
55.0	-0.412114D-01	-0.984351D+00	-92.40	0.970645
56.0	-0.166464D+00	-0.965853D+00	-99.78	0.960583
57.0	-0.292066D+00	-0.933527D+00	-107.37	0.956775
58.0	-0.415621D+00	-0.887398D+00	-115.10	0.960216
59.0	-0.534554D+00	-0.827658D+00	-122.86	0.970765
60.0	-0.646178D+00	-0.754669D+00	-130.57	0.987071
61.0	-0.747775D+00	-0.668979D+00	-138.18	1.006699
62.0	-0.836683D+00	-0.571339D+00	-145.67	1.026467
63.0	-0.910393D+00	-0.462728D+00	-153.06	1.042933
64.0	-0.966638D+00	-0.344375D+00	-160.39	1.052984
65.0	-0.100349D+01	-0.217782D+00	-167.76	1.054417
66.0	-0.101943D+01	-0.847490D-01	-175.25	1.046417
67.0	-0.101344D+01	0.526135D-01	177.03	1.029820
68.0	-0.985030D+00	0.191682D+00	168.98	1.007103
69.0	-0.934318D+00	0.330328D+00	160.53	0.982066
70.0	-0.862007D+00	0.464959D+00	151.66	0.959234
71.0	-0.769413D+00	0.592513D+00	142.40	0.943067
72.0	-0.658430D+00	0.709631D+00	132.86	0.937106
73.0	-0.531499D+00	0.812848D+00	123.18	0.943213
74.0	-0.391548D+00	0.898753D+00	113.54	0.961067
75.0	-0.241918D+00	0.964114D+00	104.09	0.988039
76.0	-0.862816D-01	0.100601D+01	94.90	1.019511
77.0	0.714512D-01	0.102201D+01	86.00	1.049616
78.0	0.227234D+00	0.101028D+01	77.32	1.072309
79.0	0.376987D+00	0.969768D+00	68.76	1.082570
80.0	0.516700D+00	0.900293D+00	60.15	1.077507
81.0	0.642536D+00	0.802672D+00	51.32	1.057135
82.0	0.750930D+00	0.678767D+00	42.11	1.024622
83.0	0.838664D+00	0.531514D+00	32.36	0.985899
84.0	0.903057D+00	0.364890D+00	22.00	0.948658
85.0	0.941848D+00	0.183838D+00	11.04	0.920874
86.0	0.953470D+00	-0.586578D-02	-0.35	0.909139
87.0	0.937020D+00	-0.197792D+00	-11.92	0.917128
88.0	0.892338D+00	-0.385088D+00	-23.34	0.944560
89.0	0.820051D+00	-0.560744D+00	-34.36	0.986917
90.0	0.721609D+00	-0.717882D+00	-44.85	1.036074

CIRCULAR OP POLARIZATION KA= 15.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.200334D-02	0.113552D-01	79.99	0.000133
46.0	-0.297024D-02	0.125222D-01	103.34	0.000166
47.0	-0.816515D-02	0.123880D-01	123.39	0.000220
48.0	-0.132385D-01	0.109231D-01	140.47	0.000295
49.0	-0.178394D-01	0.820556D-02	155.30	0.000386
50.0	-0.216351D-01	0.441906D-02	168.46	0.000488
51.0	-0.243371D-01	-0.155704D-03	-179.63	0.000592
52.0	-0.257249D-01	-0.515839D-02	-168.66	0.000688
53.0	-0.256657D-01	-0.101730D-01	-158.38	0.000762
54.0	-0.241290D-01	-0.147572D-01	-148.55	0.000800
55.0	-0.211930D-01	-0.184756D-01	-138.92	0.000790
56.0	-0.170430D-01	-0.209334D-01	-129.15	0.000729
57.0	-0.119622D-01	-0.218094D-01	-118.74	0.000619
58.0	-0.631264D-02	-0.208851D-01	-106.82	0.000476
59.0	-0.510910D-03	-0.180666D-01	-91.62	0.000327
60.0	0.500341D-02	-0.133996D-01	-69.52	0.000205
61.0	0.980174D-02	-0.707377D-02	-35.82	0.000146
62.0	0.135017D-01	0.583726D-03	2.48	0.000183
63.0	0.153005D-01	0.912456D-02	30.01	0.000333
64.0	0.165033D-01	0.180062D-01	47.49	0.000597
65.0	0.155453D-01	0.266268D-01	59.72	0.000951
66.0	0.130030D-01	0.343668D-01	69.28	0.001350
67.0	0.909617D-02	0.406338D-01	77.38	0.001734
68.0	0.417691D-02	0.449066D-01	84.69	0.002034
69.0	-0.129190D-02	0.467780D-01	91.58	0.002190
70.0	-0.676913D-02	0.459890D-01	98.37	0.002161
71.0	-0.116763D-01	0.428549D-01	105.38	0.001939
72.0	-0.154440D-01	0.362793D-01	113.06	0.001555
73.0	-0.175613D-01	0.277539D-01	122.32	0.001079
74.0	-0.176233D-01	0.173454D-01	135.46	0.000611
75.0	-0.153735D-01	0.566746D-02	159.76	0.000268
76.0	-0.107372D-01	-0.655830D-02	-148.58	0.000158
77.0	-0.384290D-02	-0.185519D-01	101.70	0.000359
78.0	0.497177D-02	-0.295307D-01	-80.44	0.000897
79.0	0.151697D-01	-0.387668D-01	-68.63	0.001733
80.0	0.260413D-01	-0.456437D-01	-60.29	0.002761
81.0	0.367468D-01	-0.497049D-01	-53.52	0.003821
82.0	0.463724D-01	-0.506930D-01	-47.55	0.004720
83.0	0.539961D-01	-0.485744D-01	-41.97	0.005275
84.0	0.587601D-01	-0.435467D-01	-36.54	0.005349
85.0	0.599431D-01	-0.360290D-01	-31.01	0.004891
86.0	0.570274D-01	-0.266338D-01	-25.03	0.003961
87.0	0.497563D-01	-0.161217D-01	-17.95	0.002736
88.0	0.381756D-01	-0.534366D-02	-7.97	0.001486
89.0	0.226550D-01	0.482735D-02	12.03	0.000537
90.0	0.388697D-02	0.135689D-01	74.01	0.000199

CIRCULAR PP POLARIZATION KA= 15.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.721609D+00	-0.717882D+00	-44.85	1.036074
91.0	0.599299D+00	-0.850070D+00	-54.82	1.081778
92.0	0.456244D+00	-0.951622D+00	-64.39	1.113743
93.0	0.296373D+00	-0.101789D+01	-73.77	1.123941
94.0	0.124363D+00	-0.104553D+01	-83.22	1.108606
95.0	-0.544447D-01	-0.103270D+01	-93.02	1.069443
96.0	-0.234168D+00	-0.979223D+00	-103.45	1.013712
97.0	-0.408584D+00	-0.886639D+00	-114.74	0.953037
98.0	-0.571118D+00	-0.758234D+00	-126.99	0.901095
99.0	-0.715473D+00	-0.598934D+00	-140.07	0.870623
100.0	-0.835477D+00	-0.415135D+00	-153.58	0.870359
101.0	-0.925558D+00	-0.214458D+00	-166.95	0.902651
102.0	-0.980985D+00	-0.542705D-02	-179.68	0.962361
103.0	-0.998138D+00	0.202906D+00	168.51	1.037449
104.0	-0.974767D+00	0.401370D+00	157.62	1.111268
105.0	-0.910210D+00	0.581112D+00	147.44	1.166173
106.0	-0.805557D+00	0.734019D+00	137.66	1.187706
107.0	-0.663747D+00	0.853125D+00	127.88	1.168382
108.0	-0.489576D+00	0.932967D+00	117.69	1.110113
109.0	-0.289621D+00	0.969871D+00	106.63	1.024531
110.0	-0.720491D-01	0.962160D+00	94.28	0.930943
111.0	0.153662D+00	0.910259D+00	80.42	0.852183
112.0	0.377109D+00	0.816705D+00	65.22	0.809219
113.0	0.587430D+00	0.686042D+00	49.43	0.815728
114.0	0.773834D+00	0.524617D+00	34.14	0.874041
115.0	0.926178D+00	0.340278D+00	20.17	0.973595
116.0	0.103555D+01	0.141999D+00	7.81	1.092533
117.0	0.109484D+01	-0.605632D-01	-3.17	1.202342
118.0	0.109922D+01	-0.257549D+00	-13.19	1.274615
119.0	0.104658D+01	-0.439391D+00	-22.77	1.288392
120.0	0.937793D+00	-0.597292D+00	-32.49	1.236214
121.0	0.776853D+00	-0.723676D+00	-42.97	1.127207
122.0	0.570817D+00	-0.812566D+00	-54.91	0.986095
123.0	0.329582D+00	-0.859890D+00	-69.03	0.848034
124.0	0.654564D-01	-0.863684D+00	-85.67	0.750235
125.0	-0.207421D+00	-0.824189D+00	-104.13	0.722311
126.0	-0.473824D+00	-0.743828D+00	-122.50	0.777789
127.0	-0.718289D+00	-0.627075D+00	-138.88	0.909163
128.0	-0.926027D+00	-0.480219D+00	-152.59	1.088137
129.0	-0.108385D+01	-0.311027D+00	-163.99	1.271464
130.0	-0.118104D+01	-0.128338D+00	-173.80	1.411323
131.0	-0.121013D+01	0.583974D-01	177.24	1.467830
132.0	-0.116751D+01	0.239610D+00	168.40	1.420503
133.0	-0.105382D+01	0.406104D+00	158.93	1.275448
134.0	-0.874058D+00	0.549524D+00	147.84	1.065954
135.0	-0.637521D+00	0.662780D+00	133.89	0.845710

CIRCULAR OP POLARIZATION KA= 15.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.388697D-02	0.135689D-01	74.01	0.000199
91.0	-0.171382D-01	0.201801D-01	130.34	0.000701
92.0	-0.391821D-01	0.241460D-01	148.36	0.002118
93.0	-0.608290D-01	0.251884D-01	157.51	0.004335
94.0	-0.805754D-01	0.232996D-01	163.87	0.007035
95.0	-0.969315D-01	0.187534D-01	169.05	0.009747
96.0	-0.108529D+00	0.120932D-01	173.64	0.011825
97.0	-0.118226D+00	0.409563D-02	177.95	0.013064
98.0	-0.113205D+00	-0.428933D-02	-177.83	0.012834
99.0	-0.105052D+00	-0.120163D-01	-173.47	0.011180
100.0	-0.898103D-01	-0.180371D-01	-168.64	0.008391
101.0	-0.680062D-01	-0.213993D-01	-162.53	0.005083
102.0	-0.406442D-01	-0.213445D-01	-152.29	0.002108
103.0	-0.916379D-02	-0.173968D-01	-117.78	0.000387
104.0	0.266343D-01	-0.943274D-02	-20.95	0.000696
105.0	0.586926D-01	0.227298D-02	2.22	0.003450
106.0	0.908242D-01	0.170337D-01	10.62	0.008539
107.0	0.119857D+00	0.337718D-01	15.86	0.015267
108.0	0.140781D+00	0.510754D-01	19.94	0.022428
109.0	0.154899D+00	0.672907D-01	23.48	0.028522
110.0	0.159953D+00	0.806427D-01	26.76	0.032088
111.0	0.155230D+00	0.893796D-01	29.93	0.032085
112.0	0.140640D+00	0.919294D-01	33.17	0.028231
113.0	0.116741D+00	0.870569D-01	36.71	0.021207
114.0	0.847366D-01	0.780089D-01	41.13	0.012658
115.0	0.464111D-01	0.526345D-01	48.60	0.004924
116.0	0.403534D-02	0.234682D-01	80.24	0.000567
117.0	-0.397724D-01	-0.122347D-01	-162.90	0.001732
118.0	-0.822121D-01	-0.525174D-01	-147.43	0.009517
119.0	-0.120487D+00	-0.947996D-01	-141.80	0.023504
120.0	-0.151996D+00	-0.136013D+00	-138.18	0.041602
121.0	-0.174513D+00	-0.172791D+00	-135.28	0.060312
122.0	-0.186355D+00	-0.201702D+00	-132.74	0.075412
123.0	-0.186511D+00	-0.219506D+00	-130.35	0.082969
124.0	-0.174727D+00	-0.223439D+00	-128.03	0.080455
125.0	-0.151545D+00	-0.211469D+00	-125.63	0.067685
126.0	-0.118285D+00	-0.182541D+00	-122.94	0.047313
127.0	-0.769690D-01	-0.136762D+00	-119.37	0.024628
128.0	-0.302027D-01	-0.755216D-01	-111.80	0.006616
129.0	0.189973D-01	-0.152822D-02	-4.60	0.000363
130.0	0.674012D-01	0.812506D-01	50.32	0.011145
131.0	0.111786D+00	0.167747D+00	56.32	0.040635
132.0	0.149158D+00	0.252049D+00	59.38	0.085777
133.0	0.176963D+00	0.327747D+00	61.63	0.138734
134.0	0.193274D+00	0.388346D+00	63.54	0.188167
135.0	0.196927D+00	0.427735D+00	65.28	0.221737

CIRCULAR PP POLARIZATION KA= 15.000

THETA	REAL	IMAG	PHASE	MRCS
135.0	-0.637521D+00	0.662780D+00	133.89	0.845710
136.0	-0.357334D+00	0.740399D+00	115.76	0.675879
137.0	-0.498023D-01	0.778787D+00	93.66	0.608989
138.0	0.266514D+00	0.776391D+00	71.05	0.673813
139.0	0.571894D+00	0.733760D+00	52.07	0.865467
140.0	0.846686D+00	0.653486D+00	37.66	1.143921
141.0	0.107258D+01	0.540046D+00	26.73	1.442070
142.0	0.123383D+01	0.399555D+00	17.94	1.681972
143.0	0.131839D+01	0.239424D+00	10.29	1.795479
144.0	0.131883D+01	0.679739D-01	2.95	1.743937
145.0	0.123296D+01	-0.105999D+00	-4.91	1.531426
146.0	0.106416D+01	-0.273675D+00	-14.42	1.207336
147.0	0.821346D+00	-0.426645D+00	-27.45	0.856636
148.0	0.518548D+00	-0.557330D+00	-47.06	0.579509
149.0	0.174147D+00	-0.659333D+00	-75.20	0.465047
150.0	-0.190212D+00	-0.727734D+00	-104.65	0.565777
151.0	-0.553950D+00	-0.759305D+00	-125.96	0.880090
152.0	-0.884068D+00	-0.752626D+00	-139.59	1.348022
153.0	-0.116672D+01	-0.708117D+00	-148.75	1.862656
154.0	-0.137873D+01	-0.627978D+00	-155.51	2.295263
155.0	-0.150405D+01	-0.516035D+00	-161.06	2.528445
156.0	-0.153181D+01	-0.377520D+00	-166.16	2.488971
157.0	-0.145725D+01	-0.218785D+00	-171.46	2.171446
158.0	-0.128206D+01	-0.469656D-01	-177.90	1.645872
159.0	-0.101439D+01	0.130372D+00	172.68	1.045989
160.0	-0.668444D+00	0.305607D+00	155.43	0.540214
161.0	-0.263536D+00	0.471822D+00	119.21	0.291690
162.0	0.177106D+00	0.621139D+00	74.09	0.417180
163.0	0.627877D+00	0.749016D+00	50.03	0.955254
164.0	0.106251D+01	0.850486D+00	38.68	1.852250
165.0	0.145584D+01	0.922338D+00	32.36	2.970173
166.0	0.178553D+01	0.962829D+00	28.34	4.115153
167.0	0.203360D+01	0.971720D+00	25.54	5.079750
168.0	0.218765D+01	0.950248D+00	23.48	5.688773
169.0	0.224174D+01	0.901026D+00	21.90	5.837242
170.0	0.219677D+01	0.827888D+00	20.65	5.511201
171.0	0.206041D+01	0.735678D+00	19.65	4.786516
172.0	0.184653D+01	0.630002D+00	18.84	3.806578
173.0	0.157420D+01	0.516951D+00	18.18	2.745345
174.0	0.126631D+01	0.402807D+00	17.65	1.765784
175.0	0.947898D+00	0.293748D+00	17.22	0.984798
176.0	0.644371D+00	0.195565D+00	16.88	0.453459
177.0	0.379626D+00	0.113396D+00	16.63	0.156975
178.0	0.174336D+00	0.514937D-01	16.46	0.033045
179.0	0.444426D-01	0.130397D-01	16.35	0.002145
180.0	0.195013D-09	0.304424D-10	8.87	0.000000

CIRCULAR QP POLARIZATION KA= 15.000

THETA	REAL	IMAG	PHASE	MRCS
135.0	0.196927D+00	0.427735D+00	65.28	0.221737
136.0	0.187615D+00	0.440669D+00	66.94	0.229389
137.0	0.165918D+00	0.423241D+00	68.59	0.206662
138.0	0.133269D+00	0.373306D+00	70.35	0.157118
139.0	0.918618D-01	0.290822D+00	72.47	0.093016
140.0	0.445020D-01	0.178081D+00	75.97	0.033693
141.0	-0.558748D-02	0.397932D-01	97.99	0.001615
142.0	-0.549918D-01	-0.116980D+00	-115.18	0.016708
143.0	-0.100345D+00	-0.283068D+00	-109.52	0.090197
144.0	-0.138569D+00	-0.447604D+00	-107.20	0.219551
145.0	-0.167093D+00	-0.598588D+00	-105.60	0.386228
146.0	-0.184035D+00	-0.723591D+00	-104.27	0.557453
147.0	-0.188337D+00	-0.810559D+00	-103.08	0.692477
148.0	-0.179838D+00	-0.848672D+00	-101.96	0.752586
149.0	-0.159282D+00	-0.829213D+00	-100.87	0.712965
150.0	-0.128260D+00	-0.746393D+00	-99.75	0.573553
151.0	-0.890890D-01	-0.598069D+00	-98.47	0.365623
152.0	-0.446404D-01	-0.386313D+00	-96.59	0.151231
153.0	0.187701D-02	-0.117774D+00	-89.09	0.013874
154.0	0.471533D-01	0.196198D+00	76.49	0.040717
155.0	0.880220D-01	0.539695D+00	80.74	0.299019
156.0	0.121692D+00	0.892674D+00	82.24	0.811676
157.0	0.145949D+00	0.123165D+01	83.24	1.538268
158.0	0.159313D+00	0.153066D+01	84.06	2.368289
159.0	0.161137D+00	0.176239D+01	84.78	3.131993
160.0	0.151643D+00	0.189958D+01	85.44	3.631385
161.0	0.131889D+00	0.191636D+01	86.06	3.689847
162.0	0.103674D+00	0.178982D+01	86.68	3.214192
163.0	0.693839D-01	0.150130D+01	87.35	2.258726
164.0	0.317997D-01	0.103778D+01	88.24	1.078001
165.0	-0.613022D-02	0.392862D+00	90.89	0.154378
166.0	-0.415228D-01	-0.432396D+00	-95.49	0.188690
167.0	-0.717869D-01	-0.142903D+01	-92.88	2.047267
168.0	-0.948225D-01	-0.258006D+01	-92.10	6.665722
169.0	-0.109179D+00	-0.386085D+01	-91.62	14.918120
170.0	-0.114159D+00	-0.523974D+01	-91.25	27.467914
171.0	-0.109858D+00	-0.667913D+01	-90.94	44.622835
172.0	-0.971429D-01	-0.813689D+01	-90.68	66.218337
173.0	-0.775623D-01	-0.956799D+01	-90.46	91.552452
174.0	-0.532074D-01	-0.109264D+02	-90.28	119.388869
175.0	-0.265255D-01	-0.121670D+02	-90.12	148.035501
176.0	-0.107402D-03	-0.132474D+02	-90.00	175.494117
177.0	0.235360D-01	-0.141303D+02	-89.90	199.664831
178.0	0.421883D-01	-0.147844D+02	-89.84	218.579438
179.0	0.541166D-01	-0.151865D+02	-89.80	230.631571
180.0	0.582188D-01	-0.153221D+02	-89.78	234.770716

CIRCULAR PP POLARIZATION KA= 20.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.685583D+00	-0.704509D+00	-45.78	0.966357
1.0	0.684333D+00	-0.706350D+00	-45.91	0.967242
2.0	0.680601D+00	-0.711786D+00	-46.28	0.969858
3.0	0.674440D+00	-0.720562D+00	-46.89	0.974079
4.0	0.665919D+00	-0.732280D+00	-47.72	0.979682
5.0	0.655111D+00	-0.746432D+00	-48.73	0.986332
6.0	0.642070D+00	-0.762446D+00	-49.90	0.993576
7.0	0.626803D+00	-0.779730D+00	-51.21	1.000861
8.0	0.609262D+00	-0.797726D+00	-52.63	1.007567
9.0	0.589326D+00	-0.815944D+00	-54.16	1.013070
10.0	0.566804D+00	-0.833996D+00	-55.80	1.016816
11.0	0.541644D+00	-0.851610D+00	-57.55	1.018401
12.0	0.512952D+00	-0.868632D+00	-59.44	1.017641
13.0	0.481016D+00	-0.885011D+00	-61.48	1.014621
14.0	0.445343D+00	-0.900767D+00	-63.69	1.009710
15.0	0.405686D+00	-0.915949D+00	-66.11	1.003544
16.0	0.361885D+00	-0.930590D+00	-68.75	0.996959
17.0	0.313867D+00	-0.944658D+00	-71.62	0.990891
18.0	0.261683D+00	-0.958005D+00	-74.72	0.986252
19.0	0.205494D+00	-0.970341D+00	-78.04	0.983790
20.0	0.145568D+00	-0.981206D+00	-81.56	0.983954
21.0	0.822610D-01	-0.989966D+00	-85.25	0.986799
22.0	0.159897D-01	-0.995833D+00	-89.08	0.991938
23.0	-0.527918D-01	-0.997892D+00	-93.03	0.998575
24.0	-0.123617D+00	-0.995152D+00	-97.08	1.005608
25.0	-0.196023D+00	-0.986599D+00	-101.24	1.011802
26.0	-0.269555D+00	-0.971263D+00	-105.51	1.016012
27.0	-0.343762D+00	-0.948279D+00	-109.93	1.017406
28.0	-0.418775D+00	-0.916940D+00	-114.52	1.015649
29.0	-0.492277D+00	-0.876738D+00	-119.31	1.011007
30.0	-0.565463D+00	-0.827398D+00	-124.35	1.004336
31.0	-0.637007D+00	-0.768877D+00	-129.64	0.996950
32.0	-0.706018D+00	-0.701365D+00	-135.19	0.990575
33.0	-0.771425D+00	-0.625257D+00	-140.97	0.986043
34.0	-0.831961D+00	-0.541122D+00	-146.96	0.984972
35.0	-0.886181D+00	-0.449669D+00	-153.10	0.987519
36.0	-0.932493D+00	-0.351710D+00	-159.33	0.993243
37.0	-0.969218D+00	-0.248134D+00	-165.64	1.000954
38.0	-0.994661D+00	-0.139898D+00	-171.99	1.008922
39.0	-0.100720D+01	-0.280270D-01	-178.41	1.015243
40.0	-0.100539D+01	0.863655D-01	175.09	1.018275
41.0	-0.988046D+00	0.202043D+00	168.44	1.017056
42.0	-0.954319D+00	0.317604D+00	161.59	1.011597
43.0	-0.903784D+00	0.431437D+00	154.48	1.002963
44.0	-0.836471D+00	0.541685D+00	147.07	0.993106
45.0	-0.752889D+00	0.646224D+00	139.36	0.984447

CIRCULAR OP POLARIZATION KA= 20.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.851660D-11	0.774147D-11	42.27	0.000000
1.0	0.684944D-04	0.397567D-03	80.22	0.000000
2.0	0.255362D-03	0.153875D-02	80.58	0.000002
3.0	0.508188D-03	0.327495D-02	81.18	0.000011
4.0	0.750538D-03	0.537788D-02	82.06	0.000029
5.0	0.896489D-03	0.756646D-02	83.24	0.000058
6.0	0.867507D-03	0.954003D-02	84.80	0.000092
7.0	0.608887D-03	0.110143D-01	86.84	0.000122
8.0	0.102922D-03	0.117559D-01	89.50	0.000138
9.0	-0.623561D-03	0.116115D-01	93.07	0.000135
10.0	-0.149886D-02	0.105280D-01	98.10	0.000113
11.0	-0.241370D-02	0.856145D-02	105.74	0.000079
12.0	-0.323554D-02	0.587359D-02	118.85	0.000045
13.0	-0.382786D-02	0.271560D-02	144.65	0.000022
14.0	-0.407191D-02	-0.598766D-03	-171.63	0.000017
15.0	-0.388748D-02	-0.372812D-02	-136.20	0.000029
16.0	-0.324949D-02	-0.634250D-02	-117.13	0.000051
17.0	-0.219747D-02	-0.816208D-02	-105.07	0.000071
18.0	-0.836101D-03	-0.899106D-02	-95.31	0.000082
19.0	0.674084D-03	-0.874254D-02	-85.59	0.000077
20.0	0.213504D-02	-0.745118D-02	-74.01	0.000060
21.0	0.333654D-02	-0.527187D-02	-57.67	0.000039
22.0	0.408536D-02	-0.246397D-02	-31.10	0.000023
23.0	0.423421D-02	0.637263D-03	8.56	0.000018
24.0	0.370639D-02	0.365928D-02	44.63	0.000027
25.0	0.251217D-02	0.623633D-02	68.06	0.000045
26.0	0.754135D-03	0.805428D-02	84.65	0.000065
27.0	-0.138008D-02	0.888924D-02	98.82	0.000081
28.0	-0.363743D-02	0.863920D-02	112.83	0.000088
29.0	-0.572953D-02	0.733773D-02	127.98	0.000087
30.0	-0.736960D-02	0.515428D-02	145.03	0.000081
31.0	-0.831161D-02	0.237627D-02	164.04	0.000075
32.0	-0.838617D-02	-0.623956D-03	-175.74	0.000071
33.0	-0.752819D-02	-0.343402D-02	-155.48	0.000068
34.0	-0.579185D-02	-0.565314D-02	-135.69	0.000066
35.0	-0.334998D-02	-0.694416D-02	-115.75	0.000059
36.0	-0.477201D-03	-0.707950D-02	-93.86	0.000050
37.0	0.248199D-02	-0.597497D-02	-67.44	0.000042
38.0	0.515657D-02	-0.370647D-02	-35.71	0.000040
39.0	0.719847D-02	-0.506936D-03	-4.03	0.000052
40.0	0.833179D-02	0.325709D-02	21.35	0.000080
41.0	0.839479D-02	0.712711D-02	40.33	0.000121
42.0	0.736863D-02	0.106079D-01	55.21	0.000167
43.0	0.538791D-02	0.132300D-01	67.84	0.000204
44.0	0.273060D-02	0.146111D-01	79.41	0.000221
45.0	-0.212562D-03	0.145094D-01	90.84	0.000211

CIRCULAR PP POLARIZATION KA= 20.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.752889D+00	0.646778D+00	139.36	0.984447
46.0	-0.654026D+00	0.742667D+00	131.37	0.979304
47.0	-0.541319D+00	0.826402D+00	123.16	0.979277
48.0	-0.416621D+00	0.900664D+00	114.82	0.984768
49.0	-0.282145D+00	0.956638D+00	106.43	0.994761
50.0	-0.140413D+00	0.993602D+00	98.04	1.006961
51.0	0.579253D-02	0.100909D+01	89.67	1.018292
52.0	0.153477D+00	0.100106D+01	81.28	1.025666
53.0	0.299465D+00	0.968064D+00	72.81	1.026827
54.0	0.440435D+00	0.909434D+00	64.16	1.021053
55.0	0.572940D+00	0.825372D+00	55.23	1.009499
56.0	0.693448D+00	0.717059D+00	45.96	0.995043
57.0	0.798383D+00	0.586683D+00	36.31	0.981612
58.0	0.884200D+00	0.437419D+00	26.32	0.973146
59.0	0.947483D+00	0.273354D+00	16.09	0.972446
60.0	0.985077D+00	0.993537D-01	5.76	0.980247
61.0	0.994260D+00	-0.791077D-01	-4.55	0.994811
62.0	0.972939D+00	-0.256155D+00	-14.75	1.012225
63.0	0.919860D+00	-0.525737D+00	-29.84	1.027395
64.0	0.834827D+00	-0.781861D+00	-43.88	1.035499
65.0	0.718893D+00	-0.718816D+00	-45.00	1.033507
66.0	0.574507D+00	-0.831404D+00	-55.36	1.021291
67.0	0.405607D+00	-0.915104D+00	-66.10	1.001931
68.0	0.217606D+00	-0.966273D+00	-77.39	0.981035
69.0	0.173009D-01	-0.982276D+00	-88.99	0.965166
70.0	-0.187351D+00	-0.961619D+00	-101.02	0.959811
71.0	-0.387548D+00	-0.904042D+00	-113.20	0.967485
72.0	-0.574058D+00	-0.810613D+00	-125.31	0.986636
73.0	-0.737715D+00	-0.683779D+00	-137.17	1.011778
74.0	-0.869953D+00	-0.527402D+00	-148.77	1.034971
75.0	-0.963349D+00	-0.346749D+00	-160.20	1.048275
76.0	-0.101214D+01	-0.148439D+00	-171.66	1.046456
77.0	-0.101265D+01	0.596781D-01	176.63	1.029030
78.0	-0.963670D+00	0.268724D+00	164.42	1.000872
79.0	-0.866586D+00	0.469077D+00	151.57	0.971008
80.0	-0.725483D+00	0.650764D+00	138.11	0.949820
81.0	-0.546978D+00	0.803932D+00	124.23	0.945492
82.0	-0.339949D+00	0.919411D+00	110.29	0.960881
83.0	-0.115087D+00	0.989316D+00	96.64	0.991995
84.0	0.115663D+00	0.100769D+01	83.45	1.028813
85.0	0.339759D+00	0.971056D+00	70.72	1.058385
86.0	0.544763D+00	0.878960D+00	58.21	1.069337
87.0	0.719058D+00	0.734292D+00	45.60	1.056229
88.0	0.852529D+00	0.543445D+00	32.52	1.022139
89.0	0.937174D+00	0.316220D+00	18.65	0.978289
90.0	0.967606D+00	0.654512D-01	3.87	0.940546

CIRCULAR OP POLARIZATION KA= 20.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.212562D-03	0.145094D-01	90.84	0.000211
46.0	-0.298619D-02	0.128604D-01	103.07	0.000174
47.0	-0.513034D-02	0.979226D-02	117.65	0.000122
48.0	-0.624505D-02	0.561657D-02	138.03	0.000071
49.0	-0.605073D-02	0.794760D-03	172.52	0.000037
50.0	-0.443587D-02	-0.411688D-02	-137.14	0.000037
51.0	-0.148470D-02	-0.853697D-02	-99.87	0.000075
52.0	0.252016D-02	-0.119351D-01	-78.08	0.000149
53.0	0.712200D-02	-0.139046D-01	-62.58	0.000244
54.0	0.117397D-01	-0.142213D-01	-50.46	0.000340
55.0	0.157372D-01	-0.128803D-01	-39.30	0.000414
56.0	0.185058D-01	-0.101072D-01	-28.64	0.000445
57.0	0.195466D-01	-0.633088D-02	-17.95	0.000422
58.0	0.185445D-01	-0.213717D-02	-6.57	0.000348
59.0	0.154219D-01	0.180959D-02	6.69	0.000241
60.0	0.103637D-01	0.485682D-02	25.11	0.000131
61.0	0.380873D-02	0.645802D-02	59.47	0.000056
62.0	-0.359252D-02	0.625800D-02	119.86	0.000052
63.0	-0.110510D-01	0.415656D-02	159.39	0.000139
64.0	-0.177340D-01	0.340709D-03	178.90	0.000315
65.0	-0.228711D-01	-0.472117D-02	-168.34	0.000545
66.0	-0.258564D-01	-0.903283D-01	-158.23	0.000775
67.0	-0.263337D-01	-0.156114D-01	-149.34	0.000937
68.0	-0.242518D-01	-0.196771D-01	-140.95	0.000975
69.0	-0.198813D-01	-0.216957D-01	-132.50	0.000866
70.0	-0.137881D-01	-0.210403D-01	-123.24	0.000633
71.0	-0.676554D-02	-0.173902D-01	-111.26	0.000348
72.0	0.268351D-03	-0.107961D-01	-88.58	0.000117
73.0	0.639462D-02	-0.171111D-02	-14.98	0.000044
74.0	0.108234D-01	0.903729D-02	39.86	0.000199
75.0	0.130114D-01	0.203245D-01	57.37	0.000582
76.0	0.127495D-01	0.308507D-01	67.55	0.001114
77.0	0.102074D-01	0.392942D-01	75.44	0.001648
78.0	0.592396D-02	0.444788D-01	82.41	0.002013
79.0	0.744367D-03	0.455321D-01	89.06	0.002074
80.0	-0.429310D-02	0.420157D-01	95.83	0.001784
81.0	-0.810643D-02	0.340070D-01	103.41	0.001222
82.0	-0.973647D-02	0.221196D-01	113.76	0.000584
83.0	-0.850838D-02	0.745624D-02	138.77	0.000128
84.0	-0.416402D-02	-0.850246D-02	-116.09	0.000090
85.0	0.305616D-02	-0.240638D-01	-82.76	0.000588
86.0	0.123976D-01	-0.375228D-01	-71.72	0.001562
87.0	0.226501D-01	-0.473721D-01	-64.45	0.002757
88.0	0.327753D-01	-0.524951D-01	-58.41	0.003798
89.0	0.396172D-01	-0.523152D-01	-52.86	0.004306
90.0	0.430918D-01	-0.468807D-01	-47.41	0.004055

CIRCULAR PP POLARIZATION KA= 20.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.967606D+00	0.654512D-01	3.87	0.940546
91.0	0.941835D+00	-0.193635D+00	-11.62	0.923794
92.0	0.859478D+00	-0.444329D+00	-27.38	0.936131
93.0	0.725822D+00	-0.669547D+00	-42.69	0.975110
94.0	0.547690D+00	-0.853086D+00	-57.30	1.027720
95.0	0.335152D+00	-0.980910D+00	-71.14	1.074511
96.0	0.100652D+00	-0.104237D+01	-84.48	1.096676
97.0	-0.141617D+00	-0.103127D+01	-97.82	1.083573
98.0	-0.376479D+00	-0.946569D+00	-111.69	1.037729
99.0	-0.588645D+00	-0.792803D+00	-126.59	0.975040
100.0	-0.763663D+00	-0.579989D+00	-142.78	0.919568
101.0	-0.888688D+00	-0.323089D+00	-160.03	0.894507
102.0	-0.954423D+00	-0.410175D-01	-177.54	0.912606
103.0	-0.953970D+00	0.244744D+00	165.61	0.969959
104.0	-0.885510D+00	0.511829D+00	149.97	1.046098
105.0	-0.751750D+00	0.738824D+00	135.50	1.110989
106.0	-0.560275D+00	0.907105D+00	121.70	1.136747
107.0	-0.323350D+00	0.100251D+01	107.88	1.109572
108.0	-0.573364D-01	0.101667D+01	93.23	1.036897
109.0	0.218269D+00	0.947907D+00	77.03	0.946168
110.0	0.482146D+00	0.801542D+00	58.97	0.874934
111.0	0.712748D+00	0.589577D+00	39.60	0.855611
112.0	0.890071D+00	0.329796D+00	20.33	0.900991
113.0	0.997456D+00	0.442993D-01	2.54	0.996881
114.0	0.102327D+01	-0.242378D+00	-13.33	1.105833
115.0	0.962294D+00	-0.505422D+00	-27.71	1.181461
116.0	0.816624D+00	-0.721957D+00	-41.48	1.188097
117.0	0.596011D+00	-0.873131D+00	-55.68	1.117586
118.0	0.317474D+00	-0.945862D+00	-71.45	0.995444
119.0	0.420386D-02	-0.934080D+00	-89.74	0.872522
120.0	-0.316225D+00	-0.839333D+00	-110.64	0.804478
121.0	-0.614214D+00	-0.670691D+00	-132.48	0.827085
122.0	-0.860881D+00	-0.443945D+00	-152.72	0.938204
123.0	-0.103094D+01	-0.180173D+00	-170.09	1.095292
124.0	-0.110540D+01	0.962053D-01	175.03	1.231161
125.0	-0.107387D+01	0.359699D+00	161.48	1.282570
126.0	-0.936050D+00	0.586128D+00	147.95	1.219736
127.0	-0.702367D+00	0.754889D+00	132.94	1.063177
128.0	-0.393435D+00	0.850886D+00	114.82	0.878797
129.0	-0.364590D-01	0.865940D+00	92.54	0.751332
130.0	0.327394D+00	0.799543D+00	67.73	0.746456
131.0	0.666424D+00	0.658866D+00	44.67	0.878226
132.0	0.942365D+00	0.458049D+00	25.92	1.097748
133.0	0.112405D+01	0.216809D+00	10.92	1.310505
134.0	0.118965D+01	-0.414686D-01	-2.00	1.416978
135.0	0.112882D+01	-0.291992D+00	-14.50	1.359491

CIRCULAR OP POLARIZATION KA= 20.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.430918D-01	-0.368807D-01	-47.41	0.004055
91.0	0.414668D-01	-0.368703D-01	-41.64	0.003079
92.0	0.340579D-01	-0.235168D-01	-34.62	0.001713
93.0	0.208950D-01	-0.845371D-02	-22.03	0.000508
94.0	0.280217D-02	0.649370D-02	66.66	0.000050
95.0	-0.186226D-01	0.195502D-01	133.61	0.000729
96.0	-0.411347D-01	0.292299D-01	144.60	0.002546
97.0	-0.620692D-01	0.345418D-01	150.90	0.005046
98.0	-0.786451D-01	0.351295D-01	155.93	0.007419
99.0	-0.883141D-01	0.313243D-01	160.47	0.008781
100.0	-0.891117D-01	0.240984D-01	164.87	0.008522
101.0	-0.799648D-01	0.149233D-01	169.43	0.006617
102.0	-0.609118D-01	0.554695D-02	174.80	0.003741
103.0	-0.332011D-01	-0.227945D-02	-176.07	0.001108
104.0	0.756743D-03	-0.708722D-02	-83.91	0.000051
105.0	0.375870D-01	-0.794639D-02	-11.94	0.001476
106.0	0.732850D-01	-0.465111D-02	-3.63	0.005392
107.0	0.103656D+00	0.219899D-02	1.22	0.010749
108.0	0.124808D+00	0.112417D-01	5.15	0.015703
109.0	0.133652D+00	0.205227D-01	8.73	0.018284
110.0	0.128324D+00	0.277775D-01	12.21	0.017239
111.0	0.108500D+00	0.307924D-01	15.84	0.012720
112.0	0.755312D-01	0.277947D-01	20.20	0.006478
113.0	0.323895D-01	0.178154D-01	28.81	0.001366
114.0	-0.165890D-01	0.966651D-03	176.67	0.000276
115.0	-0.661438D-01	-0.214191D-01	-162.06	0.004834
116.0	-0.110665D+00	-0.468238D-01	-157.07	0.018439
117.0	-0.148842D+00	-0.717672D-01	-153.64	0.026130
118.0	-0.168311D+00	-0.922067D-01	-150.70	0.035500
119.0	-0.166220D+00	-0.104076D+00	-147.95	0.038461
120.0	-0.149638D+00	-0.103900D+00	-145.23	0.033187
121.0	-0.115747D+00	-0.894033D-01	-142.32	0.021390
122.0	-0.677959D-01	-0.600234D-01	-138.46	0.008199
123.0	-0.107954D-01	-0.172493D-01	-122.04	0.000414
124.0	0.490110D-01	0.352939D-01	35.76	0.003648
125.0	0.104843D+00	0.920493D-01	41.28	0.019465
126.0	0.150173D+00	0.146032D+00	44.20	0.043877
127.0	0.179508D+00	0.189598D+00	46.57	0.068171
128.0	0.189080D+00	0.215400D+00	48.72	0.082148
129.0	0.177339D+00	0.217432D+00	50.80	0.078726
130.0	0.145203D+00	0.192019D+00	52.90	0.057955
131.0	0.960095D-01	0.138619D+00	55.29	0.028433
132.0	0.351711D-01	0.603077D-01	59.75	0.004874
133.0	-0.304226D-01	-0.361638D-01	-130.07	0.002233
134.0	-0.932024D-01	-0.140783D+00	-123.51	0.028507
135.0	-0.145814D+00	-0.241177D+00	-121.16	0.079428

CIRCULAR PP POLAPIZATION KA= 20.000

THETA	REAL	IMAG	PHASE	MRCS
135.0	0.112882D+01	-0.291992D+00	-14.50	1.359491
136.0	0.944726D+00	-0.510942D+00	-28.41	1.153570
137.0	0.654172D+00	-0.677746D+00	-46.01	0.887280
138.0	0.286312D+00	-0.777019D+00	-69.77	0.685734
139.0	-0.120097D+00	-0.799999D+00	-98.54	0.654422
140.0	-0.520685D+00	-0.745323D+00	-124.94	0.826619
141.0	-0.870268D+00	-0.619089D+00	-144.57	1.140639
142.0	-0.112798D+01	-0.434204D+00	-158.95	1.460872
143.0	-0.126211D+01	-0.209072D+00	-170.59	1.636643
144.0	-0.125412D+01	0.342166D-01	178.44	1.573997
145.0	-0.110126D+01	0.272040D+00	166.12	1.286779
146.0	-0.817465D+00	0.481516D+00	149.50	0.900107
147.0	-0.432349D+00	0.642676D+00	123.93	0.599959
148.0	0.117228D-01	0.740335D+00	89.09	0.548234
149.0	0.464160D+00	0.765479D+00	58.77	0.801402
150.0	0.871825D+00	0.736051D+00	39.40	1.272807
151.0	0.118522D+01	0.597072D+00	26.74	1.761250
152.0	0.136449D+01	0.420093D+00	17.11	2.038388
153.0	0.138443D+01	0.202041D+00	8.30	1.957464
154.0	0.123800D+01	-0.36[illegible]107D-01	-1.68	1.533961
155.0	0.937712D+00	-0.272798D+00	-16.22	0.953723
156.0	0.514792D+00	-0.484949D+00	-43.29	0.500186
157.0	0.160205D-01	-0.652999D+00	-88.59	0.426664
158.0	-0.501334D+00	-0.761165D+00	-123.37	0.830708
159.0	-0.[illegible]994D+00	-0.799100D+00	-140.69	1.591526
160.0	-0.134979D+01	-0.762737D+00	-150.53	2.40371[illegible]
161.0	-0.157460D+01	-0.658539D+00	-157.43	2.907787
162.0	-0.161819D+01	-0.483162D+00	-163.38	2.851997
163.0	-0.146835D+01	-0.262569D+00	-169.86	2.225007
164.0	-0.113463D+01	-0.106887D-01	-179.46	1.287505
165.0	-0.647535D+00	0.252245D+00	158.72	0.482929
166.0	-0.551795D-01	0.505519D+00	96.23	0.258594
167.0	0.582210D+00	0.729763D+00	51.42	0.871523
168.0	0.119934D+01	0.908614D+00	37.15	2.263986
169.0	0.173353D+01	0.103008D+01	30.72	4.066171
170.0	0.213218D+01	0.108746D+01	27.02	5.728777
171.0	0.235904D+01	0.107985D+01	24.60	6.731145
172.0	0.239846D+01	0.101203D+01	22.88	6.776811
173.0	0.225722D+01	0.893934D+00	21.61	5.894143
174.0	0.196352D+01	0.739672D+00	20.64	4.402521
175.0	0.156341D+01	0.566158D+00	19.91	2.764774
176.0	0.111491D+01	0.391567D+00	19.35	1.396360
177.0	0.680771D+00	0.233676D+00	18.94	0.518053
178.0	0.320492D+00	0.108271D+00	18.67	0.114438
179.0	0.829056D-01	0.277461D-01	18.50	0.007643
180.0	0.297228D-09	0.266025D-09	41.83	0.000000

CIRCULAR CP POLARIZATION KA= 20.000

THETA	REAL	IMAG	PHASE	MRCS
135.0	-0.145814D+00	-0.241177D+00	-121.16	0.079428
136.0	-0.182005D+00	-0.323926D+00	-119.33	0.138054
137.0	-0.197394D+00	-0.376178D+00	-117.69	0.180474
138.0	-0.190021D+00	-0.387379D+00	-116.13	0.186170
139.0	-0.160619D+00	-0.350915D+00	-114.59	0.148940
140.0	-0.112549D+00	-0.265446D+00	-112.98	0.083129
141.0	-0.514176D-01	-0.135723D+00	-110.75	0.021064
142.0	0.155810D-01	0.272715D-01	60.26	0.000987
143.0	0.805322D-01	0.206958D+00	68.74	0.049317
144.0	0.135758D+00	0.382570D+00	70.46	0.164790
145.0	0.174751D+00	0.531263D+00	71.79	0.312778
146.0	0.192971D+00	0.630726D+00	72.99	0.435054
147.0	0.188395D+00	0.662045D+00	74.12	0.473796
148.0	0.161761D+00	0.612481D+00	75.21	0.401300
149.0	0.116467D+00	0.477831D+00	76.30	0.241887
150.0	0.581392D-01	0.264022D+00	77.58	0.073088
151.0	-0.607574D-02	-0.123225D-01	-116.25	0.000189
152.0	-0.684058D-01	-0.324543D+00	-101.90	0.110008
153.0	-0.121419D+00	-0.637885D+00	-100.78	0.421640
154.0	-0.158939D+00	-0.912639D+00	-99.88	0.858172
155.0	-0.176794D+00	-0.110826D+01	-99.06	1.259493
156.0	-0.173300D+00	-0.118809D+01	-98.30	1.441593
157.0	-0.149430D+00	-0.112427D+01	-97.57	1.286316
158.0	-0.108634D+00	-0.902242D+00	-96.87	0.825841
159.0	-0.563545D-01	-0.524372D+00	-96.13	0.278142
160.0	0.709514D-03	-0.122104D-01	-86.67	0.000150
161.0	0.554807D-01	0.593030D+00	84.66	0.354762
162.0	0.101412D+00	0.123195D+01	85.29	1.527997
163.0	0.133305D+00	0.183048D+01	85.83	3.368435
164.0	0.147928D+00	0.230517D+01	86.33	5.335695
165.0	0.144362D+00	0.257001D+01	86.78	6.625794
166.0	0.124030D+00	0.254412D+01	87.21	6.487946
167.0	0.904119D-01	0.215970D+01	87.60	4.672476
168.0	0.[illegible]839D-01	0.136942D+01	87.97	1.877672
169.0	0.403323D-02	0.152644D+00	88.49	0.023316
170.0	-0.372586D-01	-0.148037D+01	-91.44	2.192871
171.0	-0.704981D-01	-0.348658D+01	-91.16	12.161189
172.0	-0.922669D-01	-0.579110D+01	-90.91	33.545378
173.0	-0.101023D+00	-0.829088D+01	-90.70	68.748956
174.0	-0.972259D-01	-0.108610D+02	-90.51	117.970105
175.0	-0.831747D-01	-0.133629D+02	-90.36	178.574710
176.0	-0.625737D-01	-0.156547D+02	-90.23	245.074325
177.0	-0.399076D-01	-0.176013D+02	-90.13	309.806488
178.0	-0.197138D-01	-0.190847D+02	-90.06	364.226576
179.0	-0.586018D-02	-0.200135D+02	-90.02	400.541148
180.0	-0.938599D-03	-0.203297D+02	-90.00	413.298468

CIRCULAR PP POLARIZATION KA= 25.000

THETA	REAL	IMAG	PHASE	NRCS
0	-0.974048D+00	0.227657D+00	166.84	1.000598
1.0	-0.973267D+00	0.230263D+00	166.69	1.000271
2.0	-0.970970D+00	0.237968D+00	166.23	0.999412
3.0	-0.967278D+00	0.250444D+00	165.48	0.998349
4.0	-0.962350D+00	0.267197D+00	164.48	0.997511
5.0	-0.956325D+00	0.287637D+00	163.26	0.997293
6.0	-0.949268D+00	0.311458D+00	161.85	0.997929
7.0	-0.941110D+00	0.337216D+00	160.29	0.999404
8.0	-0.931622D+00	0.365407D+00	158.58	1.001481
9.0	-0.920406D+00	0.395482D+00	156.75	1.003553
10.0	-0.906925D+00	0.427375D+00	154.77	1.005162
11.0	-0.890545D+00	0.461138D+00	152.62	1.005747
12.0	-0.870607D+00	0.497033D+00	150.28	1.004998
13.0	-0.846489D+00	0.535149D+00	147.70	1.002929
14.0	-0.817672D+00	0.575615D+00	144.86	0.999920
15.0	-0.783768D+00	0.618358D+00	141.73	0.996660
16.0	-0.744539D+00	0.663073D+00	138.31	0.994005
17.0	-0.699872D+00	0.709177D+00	134.62	0.992753
18.0	-0.649739D+00	0.755812D+00	130.68	0.993413
19.0	-0.594151D+00	0.801876D+00	126.54	0.996021
20.0	-0.533101D+00	0.846091D+00	122.21	1.000067
21.0	-0.466539D+00	0.887085D+00	117.74	1.004577
22.0	-0.394362D+00	0.923484D+00	113.12	1.008344
23.0	-0.316449D+00	0.953998D+00	108.35	1.010251
24.0	-0.232718D+00	0.977472D+00	103.39	1.009608
25.0	-0.143218D+00	0.992921D+00	98.21	1.006403
26.0	-0.482189D-01	0.999521D+00	92.76	1.001367
27.0	0.516942D-01	0.996575D+00	87.03	0.995834
28.0	0.155558D+00	0.983459D+00	81.01	0.991389
29.0	0.260204D+00	0.959565D+00	74.73	0.989411
30.0	0.369269D+00	0.924264D+00	68.22	0.990623
31.0	0.475259D+00	0.879892D+00	61.53	0.994811
32.0	0.577638D+00	0.816785D+00	54.73	1.000803
33.0	0.673942D+00	0.743353D+00	47.80	1.006771
34.0	0.761695D+00	0.656199D+00	40.74	1.010777
35.0	0.838506D+00	0.555264D+00	33.51	1.011410
36.0	0.902141D+00	0.440974D+00	26.05	1.008316
37.0	0.950567D+00	0.318376D+00	18.30	1.002409
38.0	0.981960D+00	0.177231D+00	10.23	0.995656
39.0	0.994703D+00	0.320463D-01	1.85	0.990462
40.0	0.987380D+00	-0.117953D+00	-6.[illegible]1	0.988832
41.0	0.958791D+00	-0.268929D+00	-15.67	0.991603
42.0	0.908007D+00	-0.416584D+00	-24.65	0.998019
43.0	0.834471D+00	-0.556364D+00	-33.69	1.005882
44.0	0.738139D+00	-0.683670D+00	-42.87	1.012253
45.0	0.619663D+00	-0.794057D+00	-52.03	1.014524

CIRCULAR QP POLARIZATION KA= 25.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.128977D-11	0.481642D-11	75.01	0.000000
1.0	-0.157111D-03	-0.377894D-03	-112.58	0.000000
2.0	-0.584484D-03	-0.143833D-02	-112.11	0.000002
3.0	-0.116072D-02	-0.287723D-02	-111.30	0.000011
4.0	-0.171621D-02	-0.459083D-02	-110.10	0.000025
5.0	-0.207438D-02	-0.623198D-02	-108.41	0.000043
6.0	-0.209576D-02	-0.727294D-02	-106.07	0.000057
7.0	-0.171445D-02	-0.756124D-02	-102.78	0.000060
8.0	-0.958712D-03	-0.696873D-02	-97.83	0.000049
9.0	0.498755D-04	-0.551746D-02	-89.48	0.000030
10.0	0.111903D-02	-0.338049D-02	-71.68	0.000013
11.0	0.202593D-02	-0.856182D-03	-22.91	0.000005
12.0	0.256664D-02	0.168010D-02	33.21	0.000009
13.0	0.260380D-02	0.383919D-02	55.85	0.000022
14.0	0.210223D-02	0.528549D-02	68.31	0.000032
15.0	0.134345D-02	0.579704D-02	78.84	0.000035
16.0	-0.846921D-04	0.530720D-02	90.91	0.000028
17.0	-0.132261D-02	0.392004D-02	108.64	0.000017
18.0	-0.229119D-02	0.169585D-02	140.39	0.000009
19.0	-0.275129D-02	-0.391829D-03	-171.89	0.000008
20.0	-0.255793D-02	-0.252088D-02	-135.42	0.000013
21.0	-0.169703D-02	-0.409600D-02	-112.50	0.000020
22.0	-0.296177D-03	-0.487159D-02	-93.52	0.000023
23.0	0.139464D-02	-0.455853D-02	-72.99	0.000023
24.0	0.304988D-02	-0.335386D-02	-47.72	0.000021
25.0	0.433150D-02	-0.143573D-02	-18.35	0.000021
26.0	0.496448D-02	0.819943D-03	9.38	0.000025
27.0	0.479403D-02	0.296622D-02	31.75	0.000032
28.0	0.382741D-02	0.455888D-02	49.98	0.000035
29.0	0.228014D-02	0.524690D-02	66.88	0.000033
30.0	0.347417D-03	0.484233D-02	85.90	0.000024
31.0	-0.145591D-02	0.336248D-02	113.41	0.000013
32.0	-0.277568D-02	0.103385D-02	159.57	0.000009
33.0	-0.330311D-02	-0.174448D-02	-152.16	0.000014
34.0	-0.288630D-02	-0.447267D-02	-122.83	0.000028
35.0	-0.157234D-02	-0.664462D-02	-103.31	0.000047
36.0	0.380213D-03	-0.784753D-02	-87.15	0.000062
37.0	0.259160D-02	-0.784702D-02	-71.72	0.000068
38.0	0.453759D-02	-0.664016D-02	-55.65	0.000065
39.0	0.574878D-02	-0.446434D-02	-37.83	0.000053
40.0	0.586280D-02	-0.175801D-02	-16.69	0.000037
41.0	0.472809D-02	0.921217D-03	11.05	0.000023
42.0	0.240068D-02	0.300662D-02	51.39	0.000015
43.0	-0.757992D-03	0.403971D-02	100.63	0.000017
44.0	-0.423462D-02	0.377185D-02	138.31	0.000032
45.0	-0.741051D-02	0.222558D-02	163.28	0.000060

CIRCULAR PP POLARIZATION KA= 25.000

THETA	REAL	IMAG	PHASE	MRCS
45.0	0.619663D+00	-0.794067D+00	-52.03	1.014524
46.0	0.480576D+00	-0.883469D+00	-61.46	1.011471
47.0	0.323458D+00	-0.948283D+00	-71.17	1.003866
48.0	0.152047D+00	-0.985519D+00	-81.23	0.994365
49.0	-0.287467D-01	-0.992872D+00	-91.66	0.986620
50.0	-0.212921D+00	-0.968789D+00	-102.40	0.983687
51.0	-0.393592D+00	-0.912544D+00	-113.33	0.987651
52.0	-0.563309D+00	-0.824329D+00	-124.35	0.996836
53.0	-0.714460D+00	-0.705381D+00	-135.37	1.008015
54.0	-0.839722D+00	-0.558119D+00	-146.39	1.016629
55.0	-0.932529D+00	-0.386299D+00	-157.50	1.018838
56.0	-0.987509D+00	-0.195129D+00	-168.82	1.013249
57.0	-0.100084D+01	0.868239D-02	179.50	1.001760
58.0	-0.970541D+00	0.216992D+00	167.47	0.989036
59.0	-0.696619D+00	0.420433D+00	154.8	.980689
60.0	-0.781151D+00	0.608802D+00	142.07	.980836
61.0	-0.628256D+00	0.771605D+00	129.15	0.990080
62.0	-0.443989D+00	0.898757D+00	116.29	1.004869
63.0	-0.236177D+00	0.981357D+00	103.53	1.018840
64.0	-0.1[illegible]74D-01	0.101249D+01	90.80	1.025[illegible]7
65.0	0.21[illegible]309D+00	0.987982D+00	77.93	1.020760
66.0	0.428795D+00	0.906934D+00	64.70	1.006395
67.0	0.626262D+00	0.772123D+00	50.95	0.988376
68.0	0.791819D+00	0.590054D+00	36.69	0.975141
69.0	0.914369D+00	0.370732D+00	22.07	0.973513
70.0	0.984392D+00	0.127129D+00	7.36	0.985189
71.0	0.994794D+00	-0.125605D+00	-7.20	1.005391
72.0	0.941753D+00	-0.371138D+00	-21.51	1.024642
73.0	0.825463D+00	-0.593063D+00	-35.70	1.033114
74.0	0.650671D+00	-0.776048D+00	-50.02	1.025623
75.0	0.426885D+00	-0.906929D+00	-64.79	1.004750
76.0	0.166171D+00	-0.975692D+00	-80.22	0.980257
77.0	-0.107524D+00	-0.976273D+00	-96.29	0.964570
78.0	-0.379544D+00	-0.907126D+00	-112.70	0.966931
79.0	-0.626100D+00	-0.771547D+00	-129.06	0.987286
80.0	-0.826177D+00	-0.577706D+00	-145.04	1.016313
81.0	-0.961542D+00	-0.338380D+00	-160.61	1.039064
82.0	-0.101669D+01	-0.703556D-01	-176.05	1.042681
83.0	-0.990462D+00	0.205486D+00	168.22	1.023651
84.0	-0.877136D+00	0.470422D+00	151.79	0.990664
85.0	-0.686838D+00	0.699436D+00	134.48	0.960958
86.0	-0.435159D+00	0.872991D+00	116.44	0.951476
87.0	-0.143975D+00	0.973926D+00	98.41	0.969262
88.0	0.160434D+00	0.990324D+00	80.80	1.006461
89.0	0.449814D+00	0.917134D+00	63.87	1. [illegible]467
90.0	0.696663D+00	0.757349D+00	47.39	1.0 [illegible]916

CIRCULAR OP POLARIZATION KA= 25.000

THETA	REAL	IMAG	PHASE	MRCS
45.0	-0.741051D-02	0.222554D-02	163.28	0.000060
46.0	-0.969321D-02	-0.290983D-03	-178.28	0.000094
47.0	-0.106393D-01	-0.313524D-02	-163.09	0.000124
48.0	-0.100525D-01	-0.592767D-02	-149.47	0.000136
49.0	-0.803496D-02	-0.768557D-02	-136.27	0.000124
50.0	-0.497913D-02	-0.796555D-02	-122.01	0.000098
51.0	-0.149700D-02	-0.648642D-02	-103.00	0.000044
52.0	0.170007D-02	-0.330598D-02	-62.79	0.000014
53.0	0.394964D-02	0.116670D-02	16.46	0.000017
54.0	0.478399D-02	0.622993D-02	52.48	0.000062
55.0	0.408258D-02	0.110110D-01	69.84	0.000138
56.0	0.192488D-02	0.146297D-01	82.50	0.000218
57.0	-0.103147D-02	0.163724D-01	93.60	0.000269
58.0	-0.408745D-02	0.158420D-01	104.33	0.000267
59.0	-0.625886D-02	0.130515D-01	115.62	0.000210
60.0	-0.690260D-02	0.843813D-02	129.28	0.000119
61.0	-0.549564D-02	0.279275D-02	153.06	0.000038
62.0	-0.196803D-02	-0.288751D-02	-124.28	0.000012
63.0	0.328155D-02	-0.759519D-02	-66.63	0.000068
64.0	0.942504D-02	-0.105193D-01	-48.14	0.000199
65.0	0.153379D-01	-0.112200D-01	-36.19	0.000361
66.0	0.198047D-01	-0.973208D-02	-26.17	0.000487
67.0	0.217593D-01	-0.657224D-02	-16.81	0.000517
68.0	0.205136D-01	-0.264149D-02	-7.34	0.000428
69.0	0.159260D-01	0.961458D-03	3.45	0.000255
70.0	0.846973D-02	0.318173D-02	20.59	0.000082
71.0	-0.815909D-03	0.325621D-02	104.07	0.000011
72.0	-0.104922D-01	0.914130D-03	175.02	0.000111
73.0	-0.189765D-01	-0.351658D-02	-169.50	0.000372
74.0	-0.248402D-01	-0.912786D-02	-159.82	0.000700
75.0	-0.270897D-01	-0.145809D-01	-151.71	0.000946
76.0	-0.253723D-01	-0.183652D-01	-144.10	0.000981
77.0	-0.200615D-01	-0.191206D-01	-136.38	0.000768
78.0	-0.121969D-01	-0.159594D-01	-127.39	0.000403
79.0	-0.328580D-02	-0.871898D-02	-110.65	0.000087
80.0	0.499863D-02	0.191349D-02	20.95	0.000029
81.0	0.111634D-01	0.104430D-01	52.30	0.000333
82.0	0.142141D-01	0.267802D-01	62.04	0.000919
83.0	0.138747D-01	0.365983D-01	69.24	0.001532
84.0	0.106580D-01	0.417713D-01	75.69	0.001858
85.0	0.575999D-02	0.408115D-01	81.97	0.001699
86.0	0.795143D-03	0.332180D-01	88.63	0.001104
87.0	-0.258119D-02	0.196588D-01	97.48	0.000393
88.0	-0.308328D-02	0.193780D-02	147.85	0.000013
89.0	-0.148800D-03	-0.172609D-01	-90.49	0.000298
90.0	0.584992D-02	-0.348164D-01	-80.46	0.001246

CIRCULAR PP POLARIZATION KA= 25.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.696663D+00	0.757349D+00	47 39	1.058916
91.0	0.876978D+00	0.522519D+00	30.79	1.042118
92.0	0.972747D+00	0.232413D+00	13.48	1.000252
93.0	0.973890D+00	-0.862694D-01	-5.06	0.955904
94.0	0.879474D+00	-0.402117D+00	-24.57	0.935173
95.0	0.698030D+00	-0.682086D+00	-44.34	0.952434
96.0	0.446935D+00	-0.894879D+00	-63.46	1.000560
97.0	0.150896D+00	-0.101507D+01	-81.54	1.053138
98.0	-0.160341D+00	-0.102613D+01	-98.88	1.078655
99.0	-0.454852D+00	-0.923259D+00	-116.23	1.059297
100.0	-0.701720D+00	-0.714734D+00	-134.47	1.003255
101.0	-0.834237D+00	-0.421773D+00	-154.25	0.942184
102.0	-0.952824D+00	-0.767069D-01	-175.40	0.913757
103.0	-0.927361D+00	0.280430D+00	163.17	0.938639
104.0	-0.798674D+00	0.606560D+00	142.78	1.005795
105.0	-0.578947D+00	0.860942D+00	123.92	1.076400
106.0	-0.290959D+00	0.101057D+01	106.06	1.105899
107.0	0.339023D-01	0.103483D+01	88.12	1.072038
108.0	0.358723D+00	0.928773D+00	68.88	0.991302
109.0	0.645022D+00	0.704354D+00	47.52	0.912167
110.0	0.857209D+00	0.389423D+00	24.43	0.886458
111.0	0.967066D+00	0.244800D-01	1.45	0.935815
112.0	0.957700D+00	-0.342492D+00	-19.68	1.034489
113.0	0.826418D+00	-0.662421D+00	-38.71	1.121768
114.0	0.586020D+00	-0.891929D+00	-56.69	1.138957
115.0	0.264174D+00	-0.999509D+00	-75.20	1.068806
116.0	-0.992611D-01	-0.970196D+00	-95.84	0.951133
117.0	-0.456611D+00	-0.807984D+00	-119.48	0.861516
118.0	-0.759413D+00	-0.535563D+00	-144.81	0.863537
119.0	-0.963178D+00	-0.191340D+00	-168.76	0.964323
120.0	-0.103597D+01	0.175887D+00	170.36	1.104178
121.0	-0.962828D+00	0.513871D+00	151.91	1.191102
122.0	-0.749216D+00	0.774475D+00	134.05	1.161135
123.0	-0.421533D+00	0.920723D+00	114.60	1.025422
124.0	-0.244229D-01	0.932293D+00	91.50	0.869766
125.0	0.384920D+00	0.808576D+00	64.54	0.801958
126.0	0.744805D+00	0.568835D+00	37.37	0.878308
127.0	0.998396D+00	0.249375D+00	14.02	1.058982
128.0	0.110292D	-0.101855D+00	-5.28	1.226810
129.0	0.103725D+	-0.432438D+00	-22.63	1.262899
130.0	0.806465D+00	-0.693370D+00	-40.69	1.131147
131.0	0.442378D+00	-0.846426D+00	-62.41	0.912135
132.0	-0.263787D-03	-0.869905D+00	-90.02	0.756735
133.0	-0.451682D+00	-0.761846D+00	-120.66	0.784125
134.0	-0.837935D+00	-0.540227D+00	-147.19	0.993931
135.0	-0.109312D+01	-0.280119D+00	-167.61	1.252565

CIRCULAR OP POLARIZATION KA= 25.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.584992D-02	-0.348164D-01	-80.46	0.001246
91.0	0.135975D-01	-0.477253D-01	-74.10	0.002463
92.0	0.210510D-01	-0.536639D-01	-68.58	0.003323
93.0	0.258516D-01	-0.514484D-01	-63.32	0.003315
94.0	0.258597D-01	-0.412959D-01	-57.94	0.002374
95.0	0.197061D-01	-0.248272D-01	-51.56	0.001005
96.0	0.723624D-02	-0.479704D-02	-33.56	0.000075
97.0	-0.102608D-01	0.153998D-01	123.68	0.000342
98.0	-0.301163D-01	0.323656D-01	132.94	0.001955
99.0	-0.486562D-01	0.433422D-01	138.31	0.004246
100.0	-0.618434D-01	0.467410D-01	142.92	0.006009
101.0	-0.660793D-01	0.424427D-01	147.29	0.006168
102.0	-0.590162D-01	0.317984D-01	151.68	0.004494
103.0	-0.402099D-01	0.173270D-01	156.69	0.001917
104.0	-0.116605D-01	0.216431D-02	169.31	0.000136
105.0	0.232615D-01	-0.106239D-01	-24.55	0.000654
106.0	0.783346D-01	-0.187162D-01	-17.79	0.003753
107.0	0.873903D-01	-0.210480D-01	-13.54	0.008080
108.0	0.104462D+00	-0.180407D-01	-9.80	0.011238
109.0	0.105170D+00	-0.114824D-01	-6.23	0.011193
110.0	0.877159D-01	-0.407492D-02	-2.66	0.007711
111.0	0.534910D-01	0.126636D-02	1.36	0.002863
112.0	0.707192D-02	0.220346D-02	17.31	0.000055
113.0	-0.443152D-01	-0.232556D-02	-177.00	0.001969
114.0	-0.919497D-01	-0.116801D-01	-172.76	0.008569
115.0	-0.127064D+00	-0.234922D-01	-169.53	0.016697
116.0	-0.142564D+00	-0.340899D-01	-166.55	0.021487
117.0	-0.134363D+00	-0.393146D-01	-163.69	0.019549
118.0	-0.102398D+00	-0.355787D-01	-170.84	0.011751
119.0	-0.508945D-01	-0.209345D-01	-157.64	0.003029
120.0	0.121341D-01	0.410104D-02	18.67	0.000164
121.0	0.761365D-01	0.361987D-01	25.43	0.007107
122.0	0.129813D+00	0.694958D-01	28.16	0.021681
123.0	0.165149D+00	0.965270D-01	30.61	0.035935
124.0	0.169317D+00	0.109686D+00	32.94	0.040699
125.0	0.146082D+00	0.102963D+00	35.18	0.031941
126.0	0.964261D-01	0.736005D-01	37.35	0.014715
127.0	0.282267D-01	0.232886D-01	39.52	0.001339
128.0	-0.469859D-01	-0.414327D-01	-138.59	0.003924
129.0	-0.116002D+00	-0.109774D+00	-136.58	0.025507
130.0	-0.166297D+00	-0.168310D+00	-134.66	0.055983
131.0	-0.188354D+00	-0.203406D+00	-132.80	0.076851
132.0	-0.177507D+00	-0.204055D+00	-131.02	0.073147
133.0	-0.134947D+00	-0.164586D+00	-129.35	0.045299
134.0	-0.676607D-01	-0.866474D-01	-127.99	0.012086
135.0	0.127053D-01	0.200397D-01	57.63	0.000563

CIRCULAR PP POLARIZATION KA= 25.000

THETA	REAL	IMAG	PHASE	RCS
135.0	-0.509312D+01	-0.240119D+00	-167.61	1.252565
136.0	-0.117067D+01	0.917824D-01	175.52	1.379366
137.0	-0.105316D+01	0.404378D+00	158.99	1.272670
138.0	-0.754622D+00	0.659031D+00	139.26	0.991995
139.0	-0.321455D+00	0.721860D+00	112.09	0.730375
140.0	0.175265D+00	0.809318D+00	77.78	0.685713
141.0	0.650980D+00	0.701225D+00	47.13	0.915492
142.0	0.102198D+01	0.485775D+00	25.42	1.280424
143.0	0.122026D+01	0.197559D+00	9.20	1.528055
144.0	0.120621D+01	-0.117928D+00	-5.58	1.468839
145.0	0.976830D+00	-0.411410D+00	-22.86	1.123455
146.0	0.567660D+00	-0.637482D+00	-48.32	0.728621
147.0	0.477766D-01	-0.761583D+00	-86.41	0.582291
148.0	-0.491487D+00	-0.765237D+00	-122.71	0.827146
149.0	-0.952387D+00	-0.648759D+00	-145.74	1.327929
150.0	-0.124843D+01	-0.431047D+00	-160.95	1.744388
151.0	-0.132069D+01	-0.146519D+00	-173.67	1.765677
152.0	-0.114960D+01	0.160299D+00	172.06	1.347276
153.0	-0.760041D+00	0.441672D+00	149.84	0.772737
154.0	-0.218228D+00	0.653972D+00	108.45	0.475303
155.0	0.379128D+00	0.764300D+00	63.62	0.727893
156.0	0.921772D+00	0.755410D+00	39.36	1.420307
157.0	0.130600D+01	0.628223D+00	25.69	2.100292
158.0	0.145425D+01	0.401589D+00	15.44	2.276059
159.0	0.133041D+01	0.109376D+00	4.70	1.781956
160.0	0.948143D+00	-0.204638D+00	-12.18	0.940851
161.0	0.369837D+00	-0.493272D+00	-53.14	0.380097
162.0	-0.303263D+00	-0.712862D+00	-113.05	0.600141
163.0	-0.948574D+00	-0.829575D+00	-138.83	1.587988
164.0	-0.144412D+01	-0.824193D+00	-150.29	2.764767
165.0	-0.169088D+01	-0.694711D+00	-157.66	3.341704
166.0	-0.163145D+01	-0.456406D+00	-164.37	2.869945
167.0	-0.126129D+01	-0.139419D+00	-173.69	1.610284
168.0	-0.630394D+00	0.215743D+00	161.11	0.443942
169.0	0.165076D+00	0.564112D+00	73.69	0.345473
170.0	0.999909D+00	0.862682D+00	40.79	1.744039
171.0	0.174246D+01	0.907643D+01	31.71	4.194892
172.0	0.227868D+01	0.118311D+01	27.44	6.592131
173.0	0.253292D+01	0.117606D+01	24.91	7.798808
174.0	0.248167D+01	0.106487D+01	23.22	7.292622
175.0	0.215746D+01	0.873586D+00	22.04	5.417786
176.0	0.164224D+01	0.636971D+00	21.20	3.102669
177.0	0.105133D+01	0.395243D+00	20.60	1.261509
178.0	0.511139D+00	0.188115D+00	20.21	0.296650
179.0	0.134723D+00	0.489717D-01	19.98	0.020549
180.0	0.551300D-10	0.202942D-09	74.80	0.000000

CIRCULAR OP POLARIZATION KA= 25.000

THETA	REAL	IMAG	PHASE	RCS
135.0	0.127053D-01	0.200397D-01	57.63	0.000563
136.0	0.918829D-01	0.138486D+00	56.44	0.027621
137.0	0.155551D+00	0.286845D+00	57.78	0.085131
138.0	0.192011D+00	0.322147D+00	59.20	0.140650
139.0	0.198354D+00	0.344779D+00	60.59	0.156646
140.0	0.161827D+00	0.302890D+00	61.89	0.117929
141.0	0.100065D+00	0.195833D+00	62.93	0.048364
142.0	0.201375D-01	0.358283D-01	60.66	0.001689
143.0	-0.634888D-01	-0.152729D+00	-112.57	0.027357
144.0	-0.135589D+00	-0.236466D+00	-111.95	0.131594
145.0	-0.183014D+00	-0.478431D+00	-110.93	0.262390
146.0	-0.197145D+00	-0.544914D+00	-109.89	0.335797
147.0	-0.175516D+00	-0.512523D+00	-108.90	0.293486
148.0	-0.122271D+00	-0.374177D+00	-108.10	0.154959
149.0	-0.873856D-01	-0.142695D+00	-108.37	0.022607
150.0	0.352261D-01	0.149001D+00	76.70	0.023442
151.0	0.110335D+00	0.451566D+00	76.27	0.216086
152.0	0.164262D+00	0.706567D+00	76.91	0.526219
153.0	0.187434D+00	0.856563D+00	77.66	0.768832
154.0	0.176128D+00	0.856368D+00	78.38	0.764388
155.0	0.133095D+00	0.683532D+00	78.98	0.484931
156.0	0.669326D-01	0.345976D+00	79.05	0.124179
157.0	-0.964535D-02	-0.115004D+00	-94.79	0.013319
158.0	-0.822946D-01	-0.627535D+00	-97.47	0.400572
159.0	-0.137791D+00	-0.709803D+00	-97.15	1.224663
160.0	-0.166504D+00	-0.142536D+01	-96.66	2.059376
161.0	-0.164115D+00	-0.151847D+01	-96.17	2.332682
162.0	-0.132265D+00	-0.131493D+01	-95.74	1.746547
163.0	-0.780281D-01	-0.797323D+00	-95.59	0.641812
164.0	-0.123516D-01	-0.837944D-02	-160.48	0.000172
165.0	0.522047D-01	0.965436D+00	86.90	0.934792
166.0	0.103950D+00	0.195954D+01	86.96	3.850617
167.0	0.134264D+00	0.276610D+01	87.24	7.780368
168.0	0.139092D+00	0.323678D+01	87.54	10.496128
169.0	0.119441D+00	0.311487D+01	87.80	9.716705
170.0	0.808485D-01	0.226477D+01	87.96	5.135714
171.0	0.319048D-01	0.598839D+00	86.95	0.359626
172.0	-0.176525D-01	-0.188267D+01	-90.54	3.544742
173.0	-0.591118D-01	-0.508198D+01	-90.67	25.830046
174.0	-0.864941D-01	-0.880660D+01	-90.56	77.563765
175.0	-0.976007D-01	-0.127848D+02	-90.44	163.461012
176.0	-0.941471D-01	-0.166926D+02	-90.32	278.650681
177.0	-0.810001D-01	-0.201886D+02	-90.23	427.584880
178.0	-0.647250D-01	-0.229531D+02	-90.16	526.670818
179.0	-0.517998D-01	-0.247258D+02	-90.12	611.366630
180.0	-0.469211D-01	-0.253364D+02	-90.11	641.933135

CIRCULAR PP POLARIZATION KA= 30.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.952253D+00	0.330628D+00	19.15	1.016100
1.0	0.952527D+00	0.327789D+00	18.99	1.014754
2.0	0.953441D+00	0.319393D+00	18.52	1.011061
3.0	0.955226D+00	0.305785D+00	17.75	1.005961
4.0	0.958170D+00	0.287450D+00	16.70	1.000718
5.0	0.962495D+00	0.264909D+00	15.39	0.996573
6.0	0.968235D+00	0.238598D+00	13.84	0.994407
7.0	0.975154D+00	0.208770D+00	12.08	0.994510
8.0	0.982725D+00	0.175440D+00	10.12	0.996528
9.0	0.990166D+00	0.138380D+00	7.96	0.999578
10.0	0.996537D+00	0.971786D-01	5.57	1.002531
11.0	0.100086D+01	0.513481D-01	2.94	1.004362
12.0	0.100224D+01	0.454694D-03	0.03	1.004484
13.0	0.999917D+00	-0.557472D-01	-3.19	1.002942
14.0	0.993306D+00	-0.117211D+00	-6.73	1.000396
15.0	0.981937D+00	-0.183547D+00	-10.59	0.997890
16.0	0.965364D+00	-0.254022D+00	-14.74	0.996456
17.0	0.943066D+00	-0.327631D+00	-19.16	0.996715
18.0	0.914358D+00	-0.403192D+00	-23.80	0.998614
19.0	0.878369D+00	-0.479455D+00	-28.63	1.001408
20.0	0.834078D+00	-0.555197D+00	-33.65	1.003930
21.0	0.780427D+00	-0.629265D+00	-38.86	1.005041
22.0	0.716476D+00	-0.700556D+00	-44.36	1.004116
23.0	0.641570D+00	-0.767951D+00	-50.12	1.001360
24.0	0.555479D+00	-0.830206D+00	-56.21	0.997798
25.0	0.458482D+00	-0.885839D+00	-62.64	0.994917
26.0	0.351378D+00	-0.933058D+00	-69.36	0.994063
27.0	0.235420D+00	-0.969743D+00	-76.35	0.995826
28.0	0.112244D+00	-0.993527D+00	-83.55	0.999694
29.0	-0.162778D-01	-0.100195D+01	-90.93	1.004162
30.0	-0.148064D+00	-0.992665D+00	-98.48	1.007306
31.0	-0.280860D+00	-0.963713D+00	-106.25	1.007624
32.0	-0.412179D+00	-0.913716D+00	-114.28	1.004768
33.0	-0.539216D+00	-0.842061D+00	-122.63	0.999820
34.0	-0.658740D+00	-0.748985D+00	-131.33	0.994924
35.0	-0.767076D+00	-0.635574D+00	-140.36	0.992360
36.0	-0.860082D+00	-0.503706D+00	-149.64	0.993461
37.0	-0.933368D+00	-0.355954D+00	-159.12	0.997879
38.0	-0.982537D+00	-0.195509D+00	-168.75	1.003602
39.0	-0.100356D+01	-0.261341D-01	-178.51	1.007821
40.0	-0.993195D+00	0.147823D+00	171.53	1.008287
41.0	-0.949337D+00	0.321382D+00	161.30	1.004528
42.0	-0.871353D+00	0.488883D+00	150.70	0.998263
43.0	-0.760232D+00	0.644005D+00	139.73	0.992695
44.0	-0.618636D+00	0.779878D+00	128.42	0.990921
45.0	-0.450815D+00	0.889385D+00	116.88	0.994239

CIRCULAR OP POLARIZATION KA= 30.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.178767D-11	-0.521200D-11	-71.07	0.000000
1.0	0.226511D-03	0.335024D-03	55.94	0.000000
2.0	0.827394D-03	0.125136D-02	56.53	0.000002
3.0	0.159122D-02	0.250394D-02	57.56	0.000009
4.0	0.224011D-02	0.375029D-02	59.15	0.000019
5.0	0.251780D-02	0.463351D-02	61.48	0.000028
6.0	0.227268D-02	0.487019D-02	64.98	0.000029
7.0	0.151028D-02	0.432267D-02	70.74	0.000021
8.0	0.398586D-03	0.303787D-02	82.53	0.000009
9.0	-0.776634D-03	0.124271D-02	122.00	0.000002
10.0	-0.169413D-02	-0.704288D-03	-157.43	0.000003
11.0	-0.209329D-02	-0.239503D-02	-131.15	0.000010
12.0	-0.185544D-02	-0.346892D-02	-118.14	0.000015
13.0	-0.104529D-02	-0.370185D-02	-105.77	0.000015
14.0	0.101153D-03	-0.306492D-02	-88.11	0.000009
15.0	0.124040D-02	-0.173707D-02	-54.47	0.000005
16.0	0.201980D-02	-0.664342D-04	-1.88	0.000004
17.0	0.218212D-02	0.151198D-02	34.72	0.000007
18.0	0.164540D-02	0.258366D-02	57.51	0.000009
19.0	0.533495D-03	0.286050D-02	79.44	0.000008
20.0	-0.853737D-03	0.225811D-02	110.71	0.000006
21.0	-0.212390D-02	0.923199D-03	156.51	0.000004
22.0	-0.290641D-02	-0.798393D-03	-164.64	0.000009
23.0	-0.296479D-02	-0.244730D-02	-140.46	0.000015
24.0	-0.227338D-02	-0.356956D-02	-122.49	0.000018
25.0	-0.103404D-02	-0.383863D-02	-105.08	0.000016
26.0	0.374778D-03	-0.314778D-02	-83.21	0.000010
27.0	0.150434D-02	-0.164650D-02	-47.58	0.000005
28.0	0.196817D-02	0.291783D-03	8.43	0.000004
29.0	0.156244D-02	0.216501D-02	54.18	0.000007
30.0	0.337757D-03	0.347748D-02	84.45	0.000012
31.0	-0.140150D-02	0.387910D-02	109.86	0.000017
32.0	-0.317367D-0	0.326995D-02	134.14	0.000021
33.0	-0.445319D-02	0.183914D-02	157.56	0.000023
34.0	-0.482404D-02	0.234179D-04	179.72	0.000023
35.0	-0.410863D-02	-0.160704D-02	-158.64	0.000019
36.0	-0.243236D-02	-0.250711D-02	-134.13	0.000012
37.0	-0.201526D-03	-0.231681D-02	-94.97	0.000005
38.0	0.200375D-02	-0.977184D-03	-26.00	0.000005
39.0	0.359381D-02	0.123374D-02	18.95	0.000014
40.0	0.414522D-02	0.375987D-02	42.21	0.000031
41.0	0.353593D-02	0.590938D-02	59.11	0.000047
42.0	0.199703D-02	0.704432D-02	74.17	0.000054
43.0	0.608584D-04	0.676557D-02	89.48	0.000046
44.0	-0.158526D-02	0.503936D-02	107.46	0.000028
45.0	-0.230148D-02	0.222542D-02	135.96	0.000010

CIRCULAR PP POLARIZATION KA= 30.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.450815D+00	0.889385D+00	116.88	0.994239
46.0	-0.262941D+00	0.965593D+00	105.21	1.001245
47.0	-0.604137D-01	0.100235D+01	93.45	1.008346
48.0	0.147347D+00	0.994914D+00	81.58	1.011565
49.0	0.352089D+00	0.940637D+00	69.48	1.008765
50.0	0.544429D+00	0.839440D+00	57.03	1.001062
51.0	0.714600D+00	0.694154D+00	44.17	0.992503
52.0	0.852815D+00	0.510587D+00	30.91	0.987992
53.0	0.949772D+00	0.297327D+00	17.38	0.990470
54.0	0.997348D+00	0.653112D-01	3.75	0.998968
55.0	0.989420D+00	-0.172780D+00	-9.91	1.008805
56.0	0.922750D+00	-0.403242D+00	-23.61	1.014071
57.0	0.797601D+00	-0.612106D+00	-37.50	1.011159
58.0	0.619325D+00	-0.785921D+00	-51.76	1.001234
59.0	0.396596D+00	-0.912521D+00	-66.51	0.989984
60.0	0.143166D+00	-0.981815D+00	-81.70	0.984457
61.0	-0.123881D+00	-0.986577D+00	-97.16	0.988681
62.0	-0.385147D+00	-0.923259D+00	-112.64	1.000745
63.0	-0.620489D+00	-0.792743D+00	-126.05	1.013448
64.0	-0.810779D+00	-0.600954D+00	-143.45	1.018509
65.0	-0.939660D+00	-0.359175D+00	-159.08	1.011967
66.0	-0.995105D+00	-0.839133D-01	-175.18	0.997276
67.0	-0.970655D+00	0.203827D+00	168.14	0.983716
68.0	-0.866197D+00	0.479937D+00	151.01	0.980637
69.0	-0.688278D+00	0.719236D+00	133.74	0.991027
70.0	-0.449903D+00	0.897983D+00	116.61	1.008786
71.0	-0.169854D+00	0.996613D+00	99.67	1.022089
72.0	0.128469D+00	0.100233D+01	82.70	1.021162
73.0	0.418666D+00	0.911145D+00	65.32	1.005467
74.0	0.673382D+00	0.729092D+00	47.27	0.985018
75.0	0.866719D+00	0.472228D+00	28.58	0.974201
76.0	0.976900D+00	0.165451D+00	9.61	0.981707
77.0	0.988939D+00	-0.159859D+00	-9.18	1.003654
78.0	0.897047D+00	-0.469116D+00	-27.61	1.024762
79.0	0.706364D+00	-0.728344D+00	-45.88	1.029435
80.0	0.433635D+00	-0.908081D+00	-64.47	1.012651
81.0	0.106500D+00	-0.986899D+00	-83.84	0.985312
82.0	-0.238793D+00	-0.954144D+00	-104.05	0.967412
83.0	-0.561185D+00	-0.811555D+00	-124.66	0.973551
84.0	-0.819795D+00	-0.572570D+00	-145.02	1.001045
85.0	-0.979489D+00	-0.265229D+00	-164.79	1.030277
86.0	-0.101624D+01	0.752656D-01	175.76	1.038416
87.0	-0.921394D+00	0.410179D+00	156.00	1.017214
88.0	-0.703964D+00	0.696776D+00	135.29	0.981062
89.0	-0.390512D+00	0.897346D+00	113.52	0.957730
90.0	-0.222682D-01	0.983228D+00	91.30	0.967234

CIRCULAR QP POLARIZATION KA= 30.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.230148D-02	0.222542D-0	135.96	0.000010
46.0	-0.[illegible]D-02	-0.100694D-02	-149.31	0.000004
47.0	0.230668D-03	-0.385680D-02	-86.58	0.000015
48.0	0.306162D-02	-0.561688D-02	-61.41	0.000041
49.0	0.604647D-02	-0.588263D-02	-44.21	0.000071
50.0	0.830206D-02	-0.468385D-02	-29.43	0.000091
51.0	0.906177D-02	-0.249152D-02	-15.37	0.000088
52.0	0.790813D-02	-0.965546D-04	-0.70	0.000063
53.0	0.491893D-02	0.161788D-02	18.21	0.000027
54.0	0.677377D-03	0.194559D-02	70.80	0.000004
55.0	-0.386437D-02	0.591755D-03	171.29	0.000015
56.0	-0.753681D-02	-0.220037D-02	-163.93	0.000063
57.0	-0.975207D-02	-0.567601D-02	-149.80	0.000127
58.0	-0.976426D-02	-0.875227D-02	-138.13	0.000172
59.0	-0.781163D-02	-0.103155D-01	-127.14	0.000167
60.0	-0.459119D-02	-0.955278D-02	-115.67	0.000112
61.0	-0.116410D-02	-0.622306D-02	-100.60	0.000040
62.0	0.135947D-02	-0.782238D-03	-29.92	0.000002
63.0	0.216759D-02	0.568348D-02	69.12	0.000037
64.0	0.102175D-02	0.117110D-01	85.01	0.000138
65.0	-0.162924D-02	0.158391D-01	95.87	0.000254
66.0	-0.474355D-02	0.170099D-01	105.58	0.000312
67.0	-0.697574D-02	0.148795D-01	115.12	0.000270
68.0	-0.708828D-02	0.994028D-02	125.49	0.000149
69.0	-0.436902D-02	0.341044D-02	142.02	0.000031
70.0	0.107223D-02	-0.306989D-02	-70.86	0.000011
71.0	0.822902D-02	-0.799102D-02	-44.16	0.000132
72.0	0.153880D-01	-0.102268D-01	-33.61	0.000341
73.0	0.205501D-01	-0.955283D-02	-24.93	0.000514
74.0	0.219793D-01	-0.662614D-02	-16.78	0.000527
75.0	0.187276D-01	-0.280975D-02	-8.53	0.000359
76.0	0.109820D-01	0.254546D-03	1.33	0.000121
77.0	0.118965D-03	0.118640D-02	84.27	0.000001
78.0	-0.115722D-01	-0.641292D-03	-176.83	0.000134
79.0	-0.214395D-01	-0.481814D-02	-167.33	0.000483
80.0	-0.271535D-01	-0.992716D-02	-159.92	0.000836
81.0	-0.273392D-01	-0.139101D-01	-153.03	0.000941
82.0	-0.219729D-01	-0.146841D-01	-146.25	0.000698
83.0	-0.124173D-01	-0.108431D-01	-138.87	0.000272
84.0	-0.107012D-02	-0.223148D-02	-115.62	0.000006
85.0	0.928807D-02	0.979830D-02	46.53	0.000182
86.0	0.162678D-01	0.225615D-01	54.21	0.000774
87.0	0.185419D-01	0.326439D-01	60.40	0.001409
88.0	0.162094D-01	0.367990D-01	66.23	0.001617
89.0	0.107322D-01	0.329067D-01	71.94	0.001198
90.0	0.444556D-02	0.207189D-01	77.89	0.000449

CIRCULAR PP POLARIZATION KA= 30.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	-0.222662D-01	0.983228D+00	91.30	0.967234
91.0	0.350183D+00	0.939202D+00	69.55	1.004728
92.0	0.673992D+00	0.766607D+00	48.68	1.041951
93.0	0.901881D+00	0.484568D+00	28.25	1.048195
94.0	0.999492D+00	0.128832D+00	7.34	1.015582
95.0	0.951051D+00	-0.251971D+00	-14.84	0.967987
96.0	0.762350D+00	-0.502482D+00	-38.32	0.944162
97.0	0.460483D+00	-0.868546D+00	-62.07	0.966416
98.0	0.902391D-01	-0.100587D+01	-84.87	1.019921
99.0	-0.292358D+00	-0.988016D+00	-106.48	1.061648
100.0	-0.628456D+00	-0.812202D+00	-127.73	1.054629
101.0	-0.865457D+00	-0.501681D+00	-149.90	1.000660
102.0	-0.965389D+00	-0.103483D+00	-173.86	0.942685
103.0	-0.911231D+00	0.317706D+00	160.78	0.931278
104.0	-0.710170D+00	0.690233D+00	135.82	0.980762
105.0	-0.393144D+00	0.947751D+00	112.53	1.052794
106.0	-0.106176D-01	0.104169D+01	90.58	1.085237
107.0	0.378955D+00	0.951280D+00	68.49	1.045525
108.0	0.698933D+00	0.688886D+00	44.59	0.963071
109.0	0.905151D+00	0.299340D+00	18.30	0.908903
110.0	0.955752D+00	-0.147159D+00	-8.75	0.935118
111.0	0.838516D+00	-0.567524D+00	-34.09	1.025194
112.0	0.570255D+00	-0.881490D+00	-57.10	1.102216
113.0	0.195354D+00	-0.102751D+01	-79.28	1.093982
114.0	-0.220693D+00	-0.975604D+00	-102.75	1.000508
115.0	-0.602063D+00	-0.734309D+00	-129.35	0.901688
116.0	-0.876105D+00	-0.350032D+00	-158.22	0.890082
117.0	-0.987287D+00	0.101428D+00	174.13	0.985024
118.0	-0.[illegible]	0.529722D+00	14 .77	1.106778
119.0	-0.[illegible]50266D+00	0.848248D+00	127.47	1.142371
120.0	-0.256754D+00	0.992149D+00	104.51	1.050283
121.0	0.196747D+00	0.932166D+00	78.08	0.907644
122.0	0.619550D+00	0.681241D+00	47.72	0.847931
123.0	0.923026D+00	0.292273D+00	17.57	0.937460
124.0	0.103944D+01	-0.152701D+00	-8.36	1.103753
125.0	0.937713D+00	-0.559740D+00	-30.83	1.192615
126.0	0.632350D+00	-0.843023D+00	-53.13	1.110554
127.0	0.182946D+00	-0.943319D+00	-79.02	0.923319
128.0	-0.316424D+00	-0.840853D+00	-110.62	0.807157
129.0	-0.756364D+00	-0.559657D+00	-143.50	0.885301
130.0	-0.103610D+01	-0.162354D+00	-171.09	1.099855
131.0	-0.108705D+01	0.263552D+00	166.37	1.251130
132.0	-0.890362D+00	0.624915D+00	144.94	1.183264
133.0	-0.483937D+00	0.843545D+00	119.85	0.945610
134.0	0.436636D-01	0.872972D+00	87.14	0.763986
135.0	0.571744D+00	0.709432D+00	51.13	0.830185

CIRCULAR OP POLARIZATION KA= 30.000

THETA	REAL	IMAG	PHASE	NRCS
90.0	0.444556D-02	0.207189D-01	77.89	0.000449
91.0	-0.219879D-03	0.215614D-02	95.82	0.000005
92.0	-0.157256D-02	-0.189742D-01	-94.74	0.000362
93.0	0.716040D-03	-0.378101D-01	-88.92	0.001430
94.0	0.541623D-02	-0.496297D-01	-83.77	0.002492
95.0	0.100717D-01	-0.511053D-01	-78.85	0.002713
96.0	0.117944D-01	-0.412705D-01	-74.05	0.001842
97.0	0.830401D-02	-0.219146D-01	-69.25	0.000549
98.0	-0.110758D-02	0.274007D-02	112.01	0.000009
99.0	-0.150169D-01	0.270275D-01	119.06	0.000956
100.0	-0.299509D-01	0.452554D-01	123.50	0.002945
101.0	-0.411693D-01	0.531758D-01	127.75	0.004523
102.0	-0.439939D-01	0.491060D-01	131.86	0.004347
103.0	-0.353366D-01	0.343749D-01	135.79	0.002830
104.0	-0.149753D-01	0.129551D-01	139.14	0.000392
105.0	0.138528D-01	-0.963414D-02	-34.82	0.000285
106.0	0.448175D-01	-0.278522D-01	-31.86	0.002784
107.0	0.698436D-01	-0.376556D-01	-28.33	0.006296
108.0	0.811707D-01	-0.375670D-01	-24.84	0.008000
109.0	0.736119D-01	-0.289721D-01	-21.48	0.006258
110.0	0.463793D-01	-0.155506D-01	-18.54	0.002393
111.0	0.389805D-02	-0.200837D-02	-27.26	0.000019
112.0	-0.447447D-01	0.749661D-02	170.49	0.002058
113.0	-0.877148D-01	0.107321D-01	173.02	0.007809
114.0	-0.113323D+00	0.811265D-02	175.91	0.012908
115.0	-0.113188D+00	0.249743D-02	178.74	0.012818
116.0	-0.848230D-01	-0.191088D-02	-178.71	0.007199
117.0	-0.328758D-01	-0.123622D-02	-177.85	0.001082
118.0	0.314477D-01	0.638106D-02	11.47	0.001030
119.0	0.927738D-01	0.196806D-01	11.98	0.008994
120.0	0.135274D+00	0.342307D-01	14.20	0.019471
121.0	0.146798D+00	0.435854D-01	16.54	0.023449
122.0	0.122342D+00	0.414068D-01	18.70	0.016682
123.0	0.658649D-01	0.239495D-01	19.98	0.004912
124.0	-0.101527D-01	-0.791033D-02	-142.08	0.000166
125.0	-0.874432D-01	-0.478780D-01	-151.30	0.009939
126.0	-0.146389D+00	-0.851647D-01	-149.81	0.028683
127.0	-0.171081D+00	-0.107122D+00	-147.95	0.040744
128.0	-0.153673D+00	-0.103019D+00	-146.16	0.034228
129.0	-0.968379D-01	-0.679226D-01	-144.95	0.013991
130.0	-0.135578D-01	-0.546216D-02	-158.06	0.000214
131.0	0.758216D-01	0.716014D-01	43.36	0.010876
132.0	0.148612D+00	0.143551D+00	44.01	0.042692
133.0	0.185633D+00	0.188420D+00	45.43	0.069962
134.0	0.176363D+00	0.188200D+00	46.86	0.066523
135.0	0.121977D+00	0.134909D+00	47.88	0.033079

CIRCULAR PP POLARIZATION KA= 30.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.571744D+00	0.599432D+00	51.13	0.830185
136.0	0.974837D+00	0.391616D+00	21.89	1.102671
137.0	0.135278D+01	-0.778734D-02	-0.39	1.328954
138.0	0.105623D+01	-0.398646D+00	-20.68	1.274533
139.0	0.701054D+00	-0.693689D+00	-44.70	0.972682
140.0	0.167270D+00	-0.828062D+00	-78.58	0.713666
141.0	-0.418105D+00	-0.773714D+00	-118.39	0.773445
142.0	-0.910834D+00	-0.545391D+00	-149.09	1.127070
143.0	-0.118506D+01	-0.196933D+00	-170.56	1.443150
144.0	-0.116591D+01	0.191247D+00	170.68	1.395927
145.0	-0.850592D+00	0.530595D+00	148.04	1.005037
146.0	-0.317889D+00	0.744533D+00	112.73	0.651603
147.0	0.317659D+00	0.785704D+00	67.99	0.718237
148.0	0.877810D+00	0.646446D+00	36.37	1.188443
149.0	0.122125D+01	0.360187D+0	16.43	1.621195
150.0	0.925257D+01	-0.648327D-0	-0.30	1.568973
151.0	0.955167D+00	-0.369171D+00	-21.13	1.048630
152.0	0.398521D+00	-0.644938D+00	-58.29	0.574764
153.0	-0.277080D+00	-0.771076D+00	-109.77	0.671332
154.0	-0.895218D+00	-0.719161D+00	-141.22	1.318608
155.0	-0.128901D+01	-0.501288D+00	-158.75	1.912845
156.0	-0.134604D+01	-0.167158D+00	-172.92	1.839760
157.0	-0.104039D+01	0.207246D+00	168.73	1.125366
158.0	-0.443808D+00	0.536773D+00	129.52	0.484204
159.0	0.294810D+00	0.746159D+00	68.44	0.643666
160.0	0.977248D+00	0.786773D+00	38.84	1.574026
161.0	0.141691D+01	0.647400D+00	24.56	2.426770
162.0	0.148459D+01	0.356749D+00	13.51	2.331267
163.0	0.114635D+01	-0.227639D-01	-1.14	1.314627
164.0	0.476247D+00	-0.408511D+00	-40.62	0.393692
165.0	-0.359438D+0	-0.715406D+00	-116.68	0.641004
166.0	-0.114306D+01	-0.874063D+00	-142.60	2.070562
167.0	-0.166127D+01	-0.845411D+00	-153.03	3.474524
168.0	-0.176104D+01	-0.628768D+00	-160.35	3.496619
169.0	-0.139102D+01	-0.261670D+00	-169.25	2.003409
170.0	-0.616804D+00	0.188321D+00	163.02	0.415912
171.0	0.394334D+00	0.638025D+00	58.28	0.562575
172.0	0.141578D+01	0.100610D+01	35.40	3.016659
173.0	0.221994D+01	0.122984D+01	28.99	6.440631
174.0	0.263724D+01	0.127782D+01	25.85	8.587876
175.0	0.259992D+01	0.115574D+01	23.97	8.095308
176.0	0.215872D+01	0.904368D+00	22.73	5.477968
177.0	0.140797D+01	0.590180D+00	21.90	2.503262
178.0	0.742840D+00	0.290601D+00	21.37	0.636261
179.0	0.200336D+00	0.771527D-01	21.06	0.046087
180.0	0.801975D-10	-0.250624D-09	-72.26	0.000000

CIRCULAR OP POLARIZATION KA= 30.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.121977D+00	0.138909D+00	47.88	0.033079
136.0	0.354055D-01	0.346697D-01	44.40	0.002456
137.0	-0.617354D-01	-0.917439D-01	-123.94	0.012228
138.0	-0.144591D+00	-0.212592D+00	-124.22	0.066102
139.0	-0.191525D+00	-0.292649D+00	-123.20	0.122325
140.0	-0.189877D+00	-0.302851D+00	-122.09	0.127772
141.0	-0.139464D+00	-0.229625D+00	-121.27	0.072178
142.0	-0.528372D-01	-0.811303D-01	-123.07	0.009374
143.0	0.478414D-01	0.111823D+00	66.84	0.014793
144.0	0.136527D+00	0.301224D+00	65.62	0.109375
145.0	0.190126D+00	0.433015D+00	66.29	0.223650
146.0	0.194627D+00	0.461579D+00	67.14	0.250935
147.0	0.148850D+00	0.363906D+00	67.75	0.154584
148.0	0.648111D-01	0.149379D+00	66.55	0.026515
149.0	-0.354402D-01	-0.138189D+00	-104.38	0.020352
150.0	-0.125672D+00	-0.427947D+00	-106.37	0.198932
151.0	-0.182434D+00	-0.638040D+00	-105.96	0.440377
152.0	-0.191266D+00	-0.697042D+00	-105.34	0.522451
153.0	-0.150466D+00	-0.565571D+00	-104.90	0.342511
154.0	-0.714158D-01	-0.252106D+00	-105.82	0.068657
155.0	0.246040D-01	0.182167D+00	82.31	0.033790
156.0	0.112217D+00	0.632390D+00	79.94	0.412510
157.0	0.168767D+00	0.972498D+00	80.15	0.974234
158.0	0.180291D+00	0.108693D+01	80.58	1.213915
159.0	0.145027D+00	0.904402D+00	80.89	0.838975
160.0	0.735697D-01	0.425016D+00	80.18	0.186051
161.0	-0.143155D-01	-0.267588D+00	-93.06	0.071808
162.0	-0.952473D-01	-0.101444D+01	-95.36	1.038157
163.0	-0.148582D+00	-0.161084D+01	-95.27	2.616889
164.0	-0.161793D+00	-0.185314D+01	-94.99	3.460291
165.0	-0.133439D+00	-0.159344D+01	-94.79	2.556872
166.0	-0.729982D-01	-0.790176D+00	-95.28	0.629707
167.0	0.225469D-02	0.458565D+00	89.72	0.210287
168.0	0.723181D-01	0.190898D+01	87.83	3.649444
169.0	0.119973D+00	0.319817D+01	87.85	10.242667
170.0	0.135156D+00	0.390147D+01	88.02	15.239747
171.0	0.117038D+00	0.363177D+01	88.14	13.058550
172.0	0.733452D-01	0.202589D+01	87.93	4.109596
173.0	0.173198D-01	-0.979353D+00	-88.99	0.959432
174.0	-0.366258D-01	-0.529847D+01	-90.40	28.075084
175.0	-0.771735D-01	-0.105883D+02	-90.42	112.117975
176.0	-0.989893D-01	-0.163036D+02	-90.35	265.817950
177.0	-0.103442D+00	-0.217734D+02	-90.27	474.089732
178.0	-0.970763D-01	-0.263048D+02	-90.21	691.949674
179.0	-0.884869D-01	-0.292969D+02	-90.17	858.319086
180.0	-0.847233D-01	-0.303424D+02	-90.16	920.668541

CIRCULAR PP POLARIZATION KA= 35.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	-0.627157D+00	-0.789317D+00	-128.47	1.016347
1.0	-0.628687D+00	-0.787091D+00	-128.62	1.014759
2.0	-0.633434D+00	-0.780524D+00	-129.06	1.010456
3.0	-0.641794D+00	-0.769914D+00	-129.81	1.004666
4.0	-0.654237D+00	-0.755638D+00	-130.89	0.999014
5.0	-0.671087D+00	-0.738004D+00	-132.20	0.995008
6.0	-0.692341D+00	-0.717118D+00	-133.99	0.993593
7.0	-0.717574D+00	-0.692784D+00	-136.01	0.994862
8.0	-0.745984D+00	-0.664487D+00	-138.31	0.998036
9.0	-0.776530D+00	-0.631456D+00	-140.88	1.001735
10.0	-0.808125D+00	-0.592801D+00	-143.74	1.004479
11.0	-0.839806D+00	-0.547686D+00	-146.89	1.005234
12.0	-0.870806D+00	-0.495488D+00	-150.36	1.003011
13.0	-0.900516D+00	-0.435904D+00	-154.17	1.000942
14.0	-0.928341D+00	-0.368974D+00	-158.32	0.997959
15.0	-0.953505D+00	-0.295021D+00	-162.81	0.996210
16.0	-0.976899D+00	-0.214536D+00	-167.59	0.996453
17.0	-0.991009D+00	-0.128057D+00	-172.64	0.998497
18.0	-0.999987D+00	-0.360883D-01	-177.53	1.001277
19.0	-0.999825D+00	0.608926D-01	176.5	1.003358
20.0	-0.988586D+00	0.162329D+00	170.6	1.003654
21.0	-0.964624D+00	0.267412D+00	164.51	1.002009
22.0	-0.926711D+00	0.374879D+00	157.96	0.999329
23.0	-0.874058D+00	0.482662D+00	151.08	0.997135
24.0	-0.806233D+00	0.586845D+00	143.86	0.996751
25.0	-0.723054D+00	0.680719D+00	136.35	0.998519
26.0	-0.624508D+00	0.781992D+00	128.61	1.001522
27.0	-0.510789D+00	0.862039D+00	120.65	1.004017
28.0	-0.382453D+00	0.926358D+00	112.43	1.004410
29.0	-0.240682D+00	0.971756D+00	103.91	1.002239
30.0	-0.875700D-01	0.995445D+00	95.03	0.998579
31.0	0.736684D-01	0.995046D+00	85.77	0.995543
32.0	0.238635D+00	0.968569D+00	76.16	0.995072
33.0	0.401885D+00	0.914431D+00	66.27	0.997695
34.0	0.557230D+00	0.831585D+00	56.17	1.002039
35.0	0.698151D+00	0.719786D+00	45.87	1.005510
36.0	0.823215D+00	0.579977D+00	35.33	1.005849
37.0	0.911425D+00	0.414662D+00	24.46	1.002645
38.0	0.972459D+00	0.226279D+00	13.21	0.997787
39.0	0.996832D+00	0.272359D-01	1.57	0.994416
40.0	0.981042D+00	-0.180167D+00	-10.41	0.994904
41.0	0.922791D+00	-0.384194D+00	-22.60	0.995147
42.0	0.821338D+00	-0.574291D+00	-34.96	1.004405
43.0	0.677981D+00	-0.739815D+00	-47.50	1.006985
44.0	0.496581D+00	-0.870751D+00	-60.30	1.004799
45.0	0.283976D+00	-0.958333D+00	-73.49	0.999044

CIRCULAR OP POLARIZATION KA= 35.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	-0.568981D-10	0.463809D-10	140.81	0.000000
1.0	-0.275154D-03	-0.280199D-03	-134.48	0.000000
2.0	-0.980712D-03	-0.102438D-02	-133.75	0.000002
3.0	-0.180477D-02	-0.197305D-02	-132.45	0.000007
4.0	-0.236846D-02	-0.278451D-02	-130.38	0.000013
5.0	-0.237933D-02	-0.314283D-02	-127.13	0.000016
6.0	-0.175300D-02	-0.286066D-02	-121.50	0.000011
7.0	-0.654739D-03	-0.194499D-02	-108.60	0.000004
8.0	0.556669D-03	-0.604070D-03	-47.34	0.000001
9.0	0.146266D-02	0.809354D-03	28.96	0.000003
10.0	0.174548D-02	0.190368D-02	47.48	0.000007
11.0	0.131362D-02	0.237171D-02	61.02	0.000007
12.0	0.342486D-03	0.209278D-02	80.71	0.000004
13.0	-0.787379D-03	0.117914D-02	123.73	0.000002
14.0	-0.163281D-02	-0.519655D-04	-178.18	0.000003
15.0	-0.185773D-02	-0.117560D-02	-147.67	0.000005
16.0	-0.136468D-02	-0.179710D-02	-127.21	0.000005
17.0	-0.336237D-03	-0.168629D-02	-101.28	0.000003
18.0	0.832123D-03	-0.861442D-03	-45.99	0.000001
19.0	0.166405D-02	0.409874D-03	13.65	0.000003
20.0	0.188203D-02	0.169142D-02	41.95	0.000006
21.0	0.134495D-02	0.253594D-02	62.06	0.000008
22.0	0.288290D-03	0.263548D-02	83.76	0.000007
23.0	-0.852123D-03	0.194245D-02	113.69	0.000004
24.0	-0.158644D-02	0.695554D-03	156.33	0.000003
25.0	-0.156479D-02	-0.656997D-03	-157.22	0.000003
26.0	-0.722188D-03	-0.161568D-02	-114.11	0.000003
27.0	0.678141D-03	-0.181496D-02	-69.51	0.000004
28.0	0.214403D-02	-0.116800D-02	-28.58	0.000006
29.0	0.213026D-02	0.859448D-04	1.57	0.000010
30.0	0.325733D-02	0.145515D-02	24.07	0.000013
31.0	0.246789D-02	0.236932D-02	43.83	0.000012
32.0	0.106266D-02	0.239356D-02	66.06	0.000007
33.0	-0.405041D-03	0.140319D-02	106.10	0.000002
34.0	-0.134131D-02	-0.350015D-03	-165.37	0.000002
35.0	-0.135071D-02	-0.231193D-02	-120.29	0.000007
36.0	-0.408352D-03	-0.382058D-02	-96.10	0.000015
37.0	0.110738D-02	-0.435302D-02	-75.73	0.000020
38.0	0.254255D-02	-0.373193D-02	-55.73	0.000020
39.0	0.321397D-02	-0.220939D-02	-34.51	0.000015
40.0	0.268268D-02	-0.387414D-03	-8.22	0.000007
41.0	0.947425D-03	0.100344D-02	46.64	0.000002
42.0	-0.152387D-02	0.138937D-02	137.64	0.000004
43.0	-0.394643D-02	0.594192D-03	171.44	0.000016
44.0	-0.550512D-02	-0.106255D-02	-169.03	0.000031
45.0	-0.566890D-02	-0.285861D-02	-153.24	0.000040

CIRCULAR PP POLARIZATION KA= 35.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.283976D+00	-0.958333D+00	-73.49	0.999044
46.0	0.501423D-01	-0.995563D+00	-87.12	0.993659
47.0	-0.192067D+00	-0.977647D+00	-101.11	0.992683
48.0	-0.427623D+00	-0.902428D+00	-115.35	0.997237
49.0	-0.640429D+00	-0.770856D+00	-129.72	1.004369
50.0	-0.814701D+00	-0.587491D+00	-144.20	1.008884
51.0	-0.936402D+00	-0.360934D+00	-158.92	1.007122
52.0	-0.994561D+00	-0.104035D+00	-174.03	0.999974
53.0	-0.982329D+00	0.166343D+00	170.39	0.992641
54.0	-0.897725D+00	0.430150D+00	154.40	0.990940
55.0	-0.748060D+00	0.665627D+00	138.18	0.996685
56.0	-0.530097D+00	0.851354D+00	121.91	1.005806
57.0	-0.269950D+00	0.968611D+00	105.57	1.011080
58.0	0.173382D-01	0.100374D+01	89.01	1.007792
59.0	0.308631D+00	0.950102D+00	72.00	0.997947
60.0	0.578113D+00	0.809358D+00	54.46	0.989275
61.0	0.799361D+00	0.591831D+00	36.52	0.989282
62.0	0.948038D+00	0.315952D+00	18.43	0.998602
63.0	0.100498D+01	0.684248D-02	0.39	1.010041
64.0	0.959287D+00	-0.305796D+00	-17.68	1.013742
65.0	0.810763D+00	-0.590303D+00	-36.06	1.005794
66.0	0.571311D+00	-0.816028D+00	-55.00	0.992299
67.0	0.264661D+00	-0.956492D+00	-74.53	0.984923
68.0	-0.756513D-01	-0.992560D+00	-94.36	0.990899
69.0	-0.409947D+00	-0.915359D+00	-114.13	1.005939
70.0	-0.697270D+00	-0.728559D+00	-133.74	1.016984
71.0	-0.900755D+00	-0.449528D+00	-153.48	1.013435
72.0	-0.992725D+00	-0.108859D+00	-173.74	0.997354
73.0	-0.958789D+00	0.252117D+00	165.27	0.982839
74.0	-0.800349D+00	0.585908D+00	143.79	0.983848
75.0	-0.535191D+00	0.845186D+00	122.34	1.000768
76.0	-0.196005D+00	0.990053D+00	101.20	1.018623
77.0	0.173052D+00	0.995052D+00	80.13	1.020076
78.0	0.521517D+00	0.854553D+00	58.61	1.002240
79.0	0.799064D+00	0.585279D+00	36.22	0.981055
80.0	0.962625D+00	0.225164D+00	13.17	0.977347
81.0	0.983333D+00	-0.171603D+00	-9.90	0.996391
82.0	0.852272D+00	-0.542743D+00	-32.49	1.020936
83.0	0.583883D+00	-0.827964D+00	-54.81	1.026843
84.0	0.215986D+00	-0.979235D+00	-77.56	1.005550
85.0	-0.194261D+00	-0.969413D+00	-101.33	0.977498
86.0	-0.578468D+00	-0.797648D+00	-125.95	0.970868
87.0	-0.868312D+00	-0.490501D+00	-150.54	0.994556
88.0	-0.100827D+01	-0.984272D-01	-174.42	1.026304
89.0	-0.967362D+00	0.311950D+00	162.13	1.033102
90.0	-0.747175D+00	0.668693D+00	138.17	1.005421

CIRCULAR OP POLARIZATION KA= 35.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.566890D-02	-0.285861D-02	-153.24	0.000040
46.0	-0.440964D-02	-0.392974D-02	-138.29	0.000035
47.0	-0.223261D-02	-0.360681D-02	-121.76	0.000018
48.0	0.445038D-05	-0.170139D-02	-89.85	0.000003
49.0	0.142350D-02	0.137640D-02	44.04	0.000004
50.0	0.148514D-02	0.472587D-02	72.55	0.000025
51.0	0.230908D-03	0.726279D-02	88.18	0.000053
52.0	-0.169696D-02	0.811795D-02	101.81	0.000069
53.0	-0.328169D-02	0.697666D-02	115.19	0.000059
54.0	-0.353045D-02	0.422220D-02	129.90	0.000030
55.0	-0.189671D-02	0.814599D-03	156.76	0.000004
56.0	0.144205D-02	-0.206286D-02	-55.04	0.000006
57.0	0.557416D-02	-0.346252D-02	-31.85	0.000043
58.0	0.913609D-02	-0.305918D-02	-18.51	0.000093
59.0	0.107974D-01	-0.130432D-02	-6.89	0.000118
60.0	0.977148D-02	0.730275D-03	4.27	0.000096
61.0	0.615282D-02	0.177789D-02	16.12	0.000041
62.0	0.936713D-03	0.917373D-03	44.40	0.000002
63.0	-0.430613D-02	-0.198322D-02	-155.27	0.000022
64.0	-0.799236D-02	-0.610999D-02	-142.69	0.000101
65.0	-0.911764D-02	-0.992318D-02	-132.58	0.000182
66.0	-0.764375D-02	-0.116992D-01	-123.16	0.000195
67.0	-0.451594D-02	-0.102064D-01	-113.87	0.000125
68.0	-0.128370D-02	-0.525741D-02	-103.72	0.000029
69.0	0.542774D-03	0.209256D-02	75.46	0.000005
70.0	0.151378D-03	0.980781D-02	89.12	0.000096
71.0	-0.217078D-02	0.155309D-01	97.96	0.000246
72.0	-0.508149D-02	0.174117D-01	106.27	0.000329
73.0	-0.669186D-02	0.147981D-01	114.33	0.000264
74.0	-0.536787D-02	0.851462D-02	122.23	0.000101
75.0	-0.517856D-03	0.598075D-03	130.85	0.000001
76.0	0.696455D-02	-0.642891D-02	-42.71	0.000090
77.0	0.148231D-01	-0.104980D-01	-35.31	0.000330
78.0	0.201402D-01	-0.107615D-01	-28.12	0.000521
79.0	0.203980D-01	-0.789775D-02	-21.17	0.000478
80.0	0.145145D-01	-0.379544D-02	-14.65	0.000225
81.0	0.344462D-02	-0.725073D-03	-11.89	0.000012
82.0	-0.992956D-02	-0.316170D-03	-178.18	0.000099
83.0	-0.216426D-01	-0.276369D-02	-172.72	0.000476
84.0	-0.279619D-01	-0.662270D-02	-166.68	0.000826
85.0	-0.267128D-01	-0.933226D-02	-160.74	0.000801
86.0	-0.181152D-01	-0.831322D-02	-155.35	0.000397
87.0	-0.478771D-02	-0.222587D-02	-155.07	0.000028
88.0	0.912076D-02	0.813873D-02	41.74	0.000149
89.0	0.193800D-01	0.197648D-01	45.56	0.000766
90.0	0.231757D-01	0.282641D-01	50.65	0.001336

CIRCULAR PP POLARIZATION KA= 35.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.747175D+00	0.668693D+00	138.17	1.005421
91.0	-0.384083D+00	0.906883D+00	112.95	0.969956
92.0	0.556698D-01	0.980495D+00	86.75	0.964470
93.0	0.487601D+00	0.871756D+00	60.78	0.997713
94.0	0.825451D 00	0.596137D+00	35.84	1.036748
95.0	0.999166D+00	0.201644D+00	11.41	1.038992
96.0	0.970498D+00	-0.238153D+00	-13.79	0.998583
97.0	0.742521D+00	-0.636771D+00	-40.62	0.956815
98.0	0.360543D+00	-0.911377D+00	-68.42	0.960599
99.0	-0.962587D-01	-0.100032D+01	-95.50	1.009906
100.0	-0.531034D+00	-0.877981D+00	-121.17	1.052849
101.0	-0.849970D+00	-0.563238D+00	-146.57	1.039686
102.0	-0.982999D+00	-0.118740D+00	-173.11	0.980387
103.0	-0.899861D+00	0.360037D+00	158.19	0.939377
104.0	-0.617732D+00	0.764593D+00	128.94	0.966196
105.0	-0.198453D+00	0.998240D+00	101.24	1.035867
106.0	0.264344D+00	0.100029D+01	75.20	1.070457
107.0	0.665652D+00	0.763347D+00	48.91	1.025791
108.0	0.912709D+00	0.338505D+00	20.35	0.947624
109.0	0.946613D+00	-0.174105D+00	-10.42	0.926389
110.0	0.756943D+00	-0.648213D+00	-40.58	0.993142
111.0	0.385747D+00	-0.962778D+00	-68.17	1.075742
112.0	-0.805713D-01	-0.103396D+01	-94.46	1.075566
113.0	-0.530249D+00	-0.839013D+00	-122.29	0.985106
114.0	-0.852219D+00	-0.424911D+00	-153.50	0.906827
115.0	-0.963442D+00	0.101646D+00	173.98	0.938551
116.0	-0.830926D+00	0.601190D+00	144.11	1.051867
117.0	-0.482564D+00	0.938730D+00	117.21	1.114082
118.0	-0.311705D-02	0.102123D+01	90.17	1.042928
119.0	0.484842D+00	0.824660D+00	59.55	0.915136
120.0	0.851329D+00	0.402320D+00	25.29	0.886622
121.0	0.993514D+00	-0.128577D+00	-7.37	1.003602
122.0	0.865405D+00	-0.619103D+00	-35.58	1.132214
123.0	0.493932D+00	-0.930714D+00	-62.04	1.110198
124.0	-0.243290D-01	-0.975272D+00	-91.43	0.951747
125.0	-0.546595D+00	-0.741118D+00	-126.41	0.848023
126.0	-0.922425D+00	-0.297190D+00	-162.14	0.939189
127.0	-0.103731D+01	0.226543D+00	167.68	1.127343
128.0	-0.848711D+00	0.676921D+00	141.42	1.178532
129.0	-0.402872D+00	0.922714D+00	113.59	1.013706
130.0	0.174167D+00	0.893582D+00	78.97	0.828822
131.0	0.710824D+00	0.601074D+00	40.22	0.866560
132.0	0.104063D+01	0.135122D+00	7.40	1.101168
133.0	0.105455D+01	-0.363046D+00	-19.00	1.243884
134.0	0.738404D+00	-0.743689D+00	-45.20	1.098312
135.0	0.182148D+00	-0.893765D+00	-78.88	0.831993

CIRCULAR OP POLARIZATION KA= 35.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.231757D-01	0.282641D-01	50.65	0.001336
91.0	0.200821D-01	0.294480D-01	55.71	0.001270
92.0	0.121197D-01	0.210734D-01	60.10	0.000591
93.0	0.285762D-02	0.407760D-02	54.98	0.000025
94.0	-0.409294D-02	-0.172557D-01	-103.34	0.000315
95.0	-0.659260D-02	-0.363979D-01	-100.27	0.001368
96.0	-0.484927D-02	-0.466694D-01	-95.93	0.002202
97.0	-0.126105D-02	-0.436358D-01	-91.66	0.001906
98.0	0.760440D-03	-0.269321D-01	-88.38	0.000726
99.0	-0.147639D-02	-0.779489D-03	-152.17	0.000003
100.0	-0.839594D-02	0.271094D-01	107.21	0.000805
101.0	-0.175272D-01	0.479597D-01	110.08	0.002607
102.0	-0.211981D-01	0.548971D-01	113.79	0.003599
103.0	-0.234174D-01	0.453953D-01	117.29	0.002609
104.0	-0.122690D-01	0.222874D-01	118.83	0.000647
105.0	0.817875D-02	-0.708887D-02	-40.92	0.000117
106.0	0.323718D-01	-0.333656D-01	-45.87	0.002161
107.0	0.516397D-01	-0.483758D-01	-43.13	0.005007
108.0	0.571674D-01	-0.479660D-01	-40.00	0.005569
109.0	0.435933D-01	-0.333407D-01	-37.41	0.003012
110.0	0.118531D-01	-0.104292D-01	-41.34	0.000249
111.0	-0.300083D-01	0.124837D-01	157.41	0.001056
112.0	-0.686944D-01	0.279386D-01	157.87	0.005499
113.0	-0.898529D-01	0.320395D-01	160.37	0.009100
114.0	-0.833068D-01	0.256589D-01	162.88	0.007598
115.0	-0.474451D-01	0.136354D-01	163.97	0.002437
116.0	0.901411D-02	0.232233D-02	14.45	0.000087
117.0	0.688866D-01	-0.344380D-02	-2.86	0.004757
118.0	0.111743D+00	-0.260128D-02	-1.33	0.012493
119.0	0.120923D+00	0.171453D-02	0.81	0.014625
120.0	0.899245D-01	0.386914D-02	2.46	0.008101
121.0	0.257601D-01	-0.112991D-02	-2.51	0.000665
122.0	-0.522728D-01	-0.144634D-01	-164.53	0.002942
123.0	-0.118367D+00	-0.318825D-01	-164.92	0.015027
124.0	-0.148829D+00	-0.446844D-01	-163.29	0.024147
125.0	-0.130649D+00	-0.432377D-01	-161.69	0.018939
126.0	-0.669052D-01	-0.218048D-01	-161.95	0.004952
127.0	0.232042D-01	0.174072D-01	36.88	0.000841
128.0	0.110085D+00	0.630413D-01	29.80	0.016093
129.0	0.163559D+00	0.973778D-01	30.77	0.036234
130.0	0.163490D+00	0.102675D+00	32.13	0.037271
131.0	0.107434D+00	0.689656D-01	32.70	0.016298
132.0	0.124030D-01	0.182366D-03	0.84	0.000154
133.0	-0.902185D-01	-0.843558D-01	-136.92	0.015255
134.0	-0.165119D+00	-0.154643D+00	-136.88	0.051179
135.0	-0.185371D+00	-0.180074D+00	-135.83	0.066789

CIRCULAR PP POLARIZATION KA= 35.000

THETA	REAL	IMAG	PHASE	RCS
135.0	0.182148D+00	-0.893765D+00	-78.48	0.831993
136.0	-0.443832D+00	-0.771079D+00	-119.92	0.791549
137.0	-0.940038D+00	-0.416690D+00	-156.09	1.057302
138.0	-0.114162D+01	0.581762D-01	177.08	1.306684
139.0	-0.974209D+00	0.506689D+00	152.52	1.205817
140.0	-0.482622D+00	0.791752D+00	121.36	0.859795
141.0	0.178849D+00	0.828096D+00	77.81	0.717730
142.0	0.793587D+00	0.608138D+00	37.46	0.999575
143.0	0.115329D+01	0.203460D+00	10.01	1.371473
144.0	0.112921D+01	-0.257827D+00	-12.86	1.341587
145.0	0.719438D+00	-0.631638D+00	-41.28	0.916557
146.0	0.545846D-01	-0.802686D+00	-86.11	0.647285
147.0	-0.642307D+00	-0.720103D+00	-131.73	0.931106
148.0	-0.112988D+01	-0.412672D+00	-159.94	1.446929
149.0	-0.123225D+01	0.208743D-01	179.03	1.518883
150.0	-0.903316D+00	0.443286D+00	153.86	1.012483
151.0	-0.247838D+00	0.721969D+00	108.95	0.582662
152.0	0.510194D+00	0.770367D+00	56.48	0.353763
153.0	0.110306D+01	0.574672D+00	27.52	1.546989
154.0	0.131355D+01	0.197673D+00	8.56	1.764494
155.0	0.105486D+01	-0.241266D+00	-12.88	1.170940
156.0	0.406654D+00	-0.603696D+00	-56.04	0.529816
157.0	-0.407600D+00	-0.775300D+00	-117.73	0.767228
158.0	-0.109635D+01	-0.701420D+00	-147.39	1.693976
159.0	-0.140344D+01	-0.403988D+00	-163.94	2.132857
160.0	-0.120282D+01	0.252253D-01	178.80	1.447403
161.0	-0.549571D+00	0.452829D+00	140.51	0.507083
162.0	0.333031D+00	0.744749D+00	65.91	0.665562
163.0	0.112844D+01	0.807355D+00	35.58	1.925199
164.0	0.153869D+01	0.616307D+00	21.83	2.747389
165.0	0.139390D+01	0.224506D+00	9.15	1.993353
166.0	0.719516D+00	-0.253127D+00	-19.38	0.581776
167.0	-0.264695D+00	-0.673348D+00	-111.46	0.523462
168.0	-0.121576D+01	-0.906624D+00	-143.29	2.300036
169.0	-0.178515D+01	-0.875009D+00	-153.89	3.952393
170.0	-0.174183D+01	-0.574755D+00	-161.74	3.368329
171.0	-0.105652D+01	-0.771731D-01	-175.82	1.122197
172.0	0.840716D-01	0.492295D+00	80.31	0.249422
173.0	0.133934D+01	0.990446D+00	36.48	2.774827
174.0	0.233216D+01	0.129738D+01	29.09	7.122163
175.0	0.277997D+01	0.135025D+01	25.91	9.551444
176.0	0.255269D+01	0.116007D+01	24.11	8.067780
177.0	0.190188D+01	0.806721D+00	22.99	4.267693
178.0	0.101012D+01	0.414099D+00	22.29	1.191884
179.0	0.279947D+00	0.112575D+00	21.91	0.091043
180.0	0.306716D-08	-0.251002D-08	-39.30	0.000000

CIRCULAR OP POLARIZATION KA= 35.000

THETA	REAL	IMAG	PHASE	RCS
135.0	-0.185371D+00	-0.180074D+00	-135.83	0.066789
136.0	-0.142262D+00	-0.141732D+00	-135.11	0.040326
137.0	-0.490196D-01	-0.422498D-01	-139.24	0.004188
138.0	0.631582D-01	0.912290D-01	55.30	0.012312
139.0	0.155603D+00	0.213356D+00	53.90	0.069734
140.0	0.195680D+00	0.275228D+00	54.59	0.114041
141.0	0.168460D+00	0.242926D+00	55.26	0.087392
142.0	0.824321D-01	0.113266D+00	53.95	0.019624
143.0	-0.330727D-01	-0.799129D-01	-112.48	0.007480
144.0	-0.137933D+00	-0.272867D+00	-116.82	0.093482
145.0	-0.195325D+00	-0.391819D+00	-116.50	0.191674
146.0	-0.184843D+00	-0.379825D+00	-115.95	0.178434
147.0	-0.109907D+00	-0.221315D+00	-116.41	0.061060
148.0	0.327997D-02	0.455292D-01	85.88	0.002084
149.0	0.118945D+00	0.335149D+00	71.07	0.125537
150.0	0.185869D+00	0.540121D+00	71.01	0.326278
151.0	0.191346D+00	0.568919D+00	71.41	0.360282
152.0	0.129946D+00	0.383363D+00	71.28	0.163853
153.0	0.239086D-01	0.214491D-01	41.90	0.001032
154.0	-0.889595D-01	-0.405289D+00	-102.38	0.172173
155.0	-0.168911D+00	-0.742756D+00	-102.81	0.580218
156.0	-0.188442D+00	-0.846240D+00	-102.55	0.751633
157.0	-0.141901D+00	-0.637018D+00	-102.56	0.425928
158.0	-0.470938D-01	-0.143157D+00	-108.21	0.022712
159.0	0.615561D-01	0.493202D+00	82.89	0.247037
160.0	0.145667D+00	0.105012D+01	82.10	1.123974
161.0	0.176655D+00	0.129578D+01	82.24	1.710242
162.0	0.145588D+00	0.107419D+01	82.28	1.175081
163.0	0.656279D-01	0.478232D+00	80.16	0.147366
164.0	-0.334608D-01	-0.618710D+00	-93.10	0.383922
165.0	-0.116620D+00	-0.159082D+01	-94.19	2.544294
166.0	-0.156123D+00	-0.214839D+01	-94.16	4.639944
167.0	-0.140943D+00	-0.196695D+01	-94.10	3.880760
168.0	-0.796082D-01	-0.920366D+00	-94.94	0.853411
169.0	0.413201D-02	0.825315D+00	89.71	0.681162
170.0	0.807825D-01	0.279403D+01	88.34	7.813148
171.0	0.125870D+00	0.427561D+01	88.31	18.296683
172.0	0.127918D+00	0.448616D+01	88.37	20.142007
173.0	0.908956D-01	0.277696D+01	88.13	7.719794
174.0	0.307108D-01	0.116285D+01	-88.49	1.353175
175.0	-0.322987D-01	-0.716821D+01	-90.26	51.384322
176.0	-0.815234D-01	-0.145697D+02	-90.32	212.282992
177.0	-0.109535D+00	-0.222927D+02	-90.28	496.977399
178.0	-0.118877D+00	-0.290674D+02	-90.23	844.927968
179.0	-0.118356D+00	-0.337014D+02	-90.20	1135.798871
180.0	-0.116946D+00	-0.353481D+02	-90.19	1249.499388

CIRCULAR PP POLARIZATION KA= 40.000

THETA	REAL	IMAG	PHASE	RCS
0.0	0.102398D+00	0.999301D+00	84.15	1.009088
1.0	0.104815D+00	0.998552D+00	84.01	1.008092
2.0	0.112306D+00	0.996391D+00	83.57	1.005808
3.0	0.125490D+00	0.993031D+00	82.89	1.001859
4.0	0.145072D+00	0.988684D+00	81.65	0.998543
5.0	0.171519D+00	0.983396D+00	80.11	0.996487
6.0	0.204825D+00	0.976905D+00	78.16	0.996296
7.0	0.244483D+00	0.968564D+00	75.83	0.997888
8.0	0.289645D+00	0.957379D+00	73.17	1.000469
9.0	0.339406D+00	0.942132D+00	70.19	1.002808
10.0	0.393047D+00	0.921565D+00	66.90	1.003768
11.0	0.450131D+00	0.894563D+00	63.29	1.002862
12.0	0.510391D+00	0.860260D+00	59.32	1.000545
13.0	0.573462D+00	0.818031D+00	54.97	0.998034
14.0	0.638585D+00	0.767399D+00	50.23	0.996693
15.0	0.704408D+00	0.707882D+00	45.14	0.997287
16.0	0.768981D+00	0.638886D+00	39.72	0.999507
17.0	0.829945D+00	0.559704D+00	34.00	1.002077
18.0	0.884809D+00	0.469661D+00	27.96	1.003468
19.0	0.931201D+00	0.368362D+00	21.58	1.002825
20.0	0.966967D+00	0.255980D+00	14.83	1.000551
21.0	0.990098D+00	0.133465D+00	7.68	0.998107
22.0	0.998549D+00	0.261418D-02	0.15	0.997106
23.0	0.990084D+00	-0.134022D+00	-7.71	0.998227
24.0	0.962279D+00	-0.273333D+00	-15.86	1.000693
25.0	0.912754D+00	-0.411847D+00	-24.29	1.002737
26.0	0.839580D+00	-0.545832D+00	-33.03	1.002827
27.0	0.741764D+00	-0.671267D+00	-42.14	1.000813
28.0	0.619629D+00	-0.783720D+00	-51.67	0.998157
29.0	0.474976D+00	-0.878256D+00	-61.59	0.996936
30.0	0.311030D+00	-0.949489D+00	-71.86	0.998268
31.0	0.132220D+00	-0.991887D+00	-82.41	1.001322
32.0	-0.560367D-01	-0.100032D+01	-93.21	1.003783
33.0	-0.247446D+00	-0.970746D+00	-104.30	1.003578
34.0	-0.434813D+00	-0.900857D+00	-115.76	1.000606
35.0	-0.609960D+00	-0.790561D+00	-127.65	0.997038
36.0	-0.763783D+00	-0.642174D+00	-139.94	0.995752
37.0	-0.886584D+00	-0.460387D+00	-152.56	0.997987
38.0	-0.968800D+00	-0.252085D+00	-165.41	1.002119
39.0	-0.100204D+01	-0.261681D-01	-176.50	1.004767
40.0	-0.980247D+00	0.206573D+00	168.10	1.003556
41.0	-0.900731D+00	0.433583D+00	154.30	0.999311
42.0	-0.764840D+00	0.640823D+00	140.04	0.995634
43.0	-0.578180D+00	0.813402D+00	125.41	0.995922
44.0	-0.350437D+00	0.936711D+00	110.51	1.000232
45.0	-0.949187D-01	0.997935D+00	95.43	1.004884

CIRCULAR OP POLARIZATION KA= 40.000

THETA	REAL	IMAG	PHASE	RCS
0.0	-0.599282D-10	0.674830D-11	173.58	0.000000
1.0	0.304723D-03	0.221164D-03	35.97	0.000000
2.0	0.105454D-02	0.790509D-03	36.86	0.000002
3.0	0.183819D-02	0.146121D-02	38.48	0.000006
4.0	0.220307D-02	0.192836D-02	41.20	0.000009
5.0	0.186414D-02	0.194886D-02	45.97	0.000007
6.0	0.943475D-03	0.144257D-02	56.81	0.000003
7.0	-0.249091D-03	0.534783D-03	114.98	0.000000
8.0	-0.118702D-02	-0.480475D-03	-157.96	0.000002
9.0	-0.146849D-02	-0.124773D-02	-139.65	0.000004
10.0	-0.991325D-03	-0.149026D-02	-123.63	0.000003
11.0	-0.575268D-05	-0.112812D-02	-90.29	0.000001
12.0	0.100270D-02	-0.322696D-03	-17.84	0.000001
13.0	0.154556D-02	0.577713D-03	20.50	0.000003
14.0	0.136714D-02	0.117598D-02	40.70	0.000003
15.0	0.568658D-03	0.119462D-02	64.54	0.000002
16.0	-0.441543D-03	0.602395D-03	126.24	0.000001
17.0	-0.114964D-02	-0.361004D-03	-162.57	0.000001
18.0	-0.119256D-02	-0.128099D-02	-132.95	0.000003
19.0	-0.542818D-03	-0.174961D-02	-107.24	0.000003
20.0	0.471162D-03	-0.155449D-02	-73.14	0.000003
21.0	0.132300D-02	-0.787312D-03	-30.76	0.000002
22.0	0.154967D-02	0.184918D-03	6.80	0.000002
23.0	0.987836D-03	0.881530D-03	41.75	0.000002
24.0	-0.134427D-03	0.934247D-03	98.19	0.000001
25.0	-0.130116D-02	0.272927D-03	168.15	0.000092
26.0	-0.196141D-02	-0.821844D-03	-157.27	0.000005
27.0	-0.180879D-02	-0.183387D-02	-134.61	0.000007
28.0	-0.946644D-03	-0.224903D-02	-112.83	0.000006
29.0	0.149533D-03	-0.180677D-02	-85.27	0.000003
30.0	0.862116D-03	-0.642334D-03	-36.69	0.000001
31.0	0.745134D-03	0.757906D-03	45.49	0.000001
32.0	-0.234326D-03	0.177793D-02	97.51	0.000003
33.0	-0.165385D-02	0.197144D-02	129.99	0.000007
34.0	-0.282424D-02	0.129428D-02	155.38	0.000010
35.0	-0.512461D-02	0.148644D-03	177.28	0.000010
36.0	-0.232076D-02	-0.795823D-03	-161.07	0.000006
37.0	-0.703476D-03	-0.929196D-03	-127.13	0.000001
38.0	0.103346D-02	-0.213231D-04	-1.18	0.000001
39.0	0.212713D-02	0.162771D-02	37.42	0.000007
40.0	0.213174D-02	0.329501D-02	57.10	0.000015
41.0	0.116167D-02	0.416413D-02	74.41	0.000019
42.0	-0.142206D-03	0.372504D-02	92.19	0.000014
43.0	-0.922505D-03	0.204744D-02	114.25	0.000005
44.0	-0.549090D-03	-0.219520D-03	-158.21	0.000000
45.0	0.102390D-02	-0.213873D-02	-64.42	0.000006

CIRCULAR PP POLARIZATION KA= 40.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.949187D-01	0.997935D+00	95.43	1.004884
46.0	0.172027D+00	0.987890D+00	80.12	1.005520
47.0	0.431701D+00	0.902662D+00	64.44	1.001164
48.0	0.663921D+00	0.748802D+00	48.29	0.995522
49.0	0.848276D+00	0.523762D+00	31.69	0.993898
50.0	0.965873D+00	0.255513D+00	14.82	0.998197
51.0	0.100160D+01	-0.385556D-01	-2.20	1.004687
52.0	0.946602D+00	-0.333259D+00	-19.40	1.007116
53.0	0.800528D+00	-0.601566D+00	-36.92	1.002728
54.0	0.572949D+00	-0.816797D+00	-54.95	0.995428
55.0	0.283480D+00	-0.955049D+00	-73.47	0.992479
56.0	-0.396056D-01	-0.997880D+00	-92.27	0.997333
57.0	-0.362173D+00	-0.925116D+00	-111.17	1.005611
58.0	-0.648031D+00	-0.767426D+00	-130.18	1.008886
59.0	-0.863179D+00	-0.508092D+00	-149.52	1.003236
60.0	-0.979972D+00	-0.183276D+00	-169.41	0.993936
61.0	-0.980770D+00	0.169762D+00	170.18	0.994729
62.0	-0.860767D+00	0.506669D+00	149.52	0.997633
63.0	-0.629760D+00	0.781858D+00	128.85	1.007899
64.0	-0.312527D+00	0.955355D+00	108.11	1.010377
65.0	0.525563D-01	0.999410D+00	86.99	1.001582
66.0	0.417048D+00	0.903626D+00	65.23	0.990470
67.0	0.728236D+00	0.677643D+00	42.94	0.989529
68.0	0.936842D+00	0.350837D+00	20.53	1.000759
69.0	0.100561D+01	-0.309671D-01	-1.76	1.012216
70.0	0.917215D+00	-0.411379D+00	-24.16	1.010516
71.0	0.679542D+00	-0.731245D+00	-47.10	0.996497
72.0	0.376816D+00	-0.937518D+00	-70.78	0.985749
73.0	-0.844035D-01	-0.992146D+00	-94.86	0.991478
74.0	-0.484060D+00	-0.879742D+00	-118.82	1.008261
75.0	-0.800871D+00	-0.612585D+00	-142.59	1.016655
76.0	-0.975707D+00	-0.231482D+00	-166.65	1.005589
77.0	-0.973409D+00	0.198624D+00	168.47	0.986976
78.0	-0.790596D+00	0.598569D+00	142.87	0.983326
79.0	-0.457807D+00	0.889384D+00	117.24	1.000591
80.0	-0.353266D-01	0.100876D+01	92.01	1.018843
81.0	0.396824D+00	0.925978D+00	66.80	1.014904
82.0	0.753266D+00	0.651428D+00	40.85	0.991768
83.0	0.959765D+00	0.237572D+00	13.90	0.977551
84.0	0.968875D+00	-0.229919D+00	-13.35	0.991581
85.0	0.772013D+00	-0.649684D+00	-40.08	1.018094
86.0	0.404337D+00	-0.927243D+00	-66.44	1.023267
87.0	-0.590587D-01	-0.997368D+00	-93.39	0.998230
88.0	-0.516603D+00	-0.840685D+00	-121.57	0.973630
89.0	-0.861646D+00	-0.490090D+00	-150.37	0.982622
90.0	-0.100776D+01	-0.249121D-01	-178.58	1.016192

CIRCULAR OP POLARIZATION KA= 40.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	0.102390D-02	-0.213873D-02	-64.42	0.000006
46.0	0.317823D-02	-0.293863D-02	-42.76	0.000019
47.0	0.488932D-02	-0.240776D-02	-26.22	0.000030
48.0	0.521340D-02	-0.102409D-02	-11.11	0.000028
49.0	0.377021D-02	0.265145D-03	4.02	0.000014
50.0	0.974874D-03	0.524300D-03	28.27	0.000001
51.0	-0.211576D-02	-0.659408D-03	-162.69	0.000005
52.0	-0.428817D-02	-0.289714D-02	-145.96	0.000027
53.0	-0.476107D-02	-0.511592D-02	-132.94	0.000049
54.0	-0.358262D-02	-0.604471D-02	-120.65	0.000049
55.0	-0.162023D-02	-0.484999D-02	-108.47	0.000026
56.0	-0.123378D-03	-0.160783D-02	-94.39	0.000003
57.0	-0.601498D-04	0.264099D-02	91.30	0.000007
58.0	-0.156023D-02	0.631233D-02	103.88	0.000042
59.0	-0.376629D-02	0.799786D-02	115.22	0.000078
60.0	-0.520602D-02	0.713856D-02	126.10	0.000078
61.0	-0.453457D-02	0.430970D-02	133.46	0.000039
62.0	-0.129186D-02	0.950050D-03	143.67	0.000003
63.0	0.371875D-02	-0.135670D-02	-20.04	0.000016
64.0	0.866143D-02	-0.170218D-02	-11.12	0.000078
65.0	0.114459D-01	-0.352277D-03	-1.76	0.000131
66.0	0.107052D-01	0.136030D-02	7.24	0.000116
67.0	0.649691D-02	0.173801D-02	14.98	0.000045
68.0	0.358465D-03	-0.311496D-03	-40.99	0.000000
69.0	-0.535228D-02	-0.453404D-02	-139.73	0.000049
70.0	-0.854042D-02	-0.923797D-02	-132.75	0.000158
71.0	-0.835786D-02	-0.119739D-01	-124.92	0.000213
72.0	-0.558394D-02	-0.107135D-01	-117.53	0.000146
73.0	-0.218130D-02	-0.497094D-02	-113.69	0.000029
74.0	-0.221169D-03	0.371686D-02	93.41	0.000014
75.0	-0.716309D-03	0.122583D-01	93.34	0.000151
76.0	-0.298603D-02	0.172810D-01	99.80	0.000308
77.0	-0.494098D-02	0.166496D-01	106.53	0.000302
78.0	-0.421378D-02	0.105001D-01	111.87	0.000128
79.0	0.402299D-03	0.125562D-02	72.23	0.000002
80.0	0.796564D-02	-0.743707D-02	-43.03	0.000119
81.0	0.154499D-01	-0.123731D-01	-38.69	0.000392
82.0	0.189665D-01	-0.122531D-01	-32.86	0.000510
83.0	0.156551D-01	-0.820519D-02	-27.66	0.000312
84.0	0.534232D-02	-0.307397D-02	-29.92	0.000038
85.0	-0.891107D-02	0.183697D-03	178.82	0.000079
86.0	-0.217861D-01	0.170218D-03	179.55	0.000475
87.0	-0.278896D-01	-0.212671D-02	-175.64	0.000782
88.0	-0.241988D-01	-0.386776D-02	-170.92	0.000601
89.0	-0.116058D-01	-0.206292D-02	-169.92	0.000139
90.0	0.524418D-02	0.441892D-02	40.12	0.000047

CIRCULAR PP POLARIZATION KA= 40.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.100776D+01	-0.249121D-01	-178.58	1.016192
91.0	-0.911984D+00	0.446300D+00	153.92	1.030898
92.0	-0.589518D+00	0.810711D+00	126.02	1.004783
93.0	-0.114458D+00	0.978232D+00	96.67	0.970039
94.0	0.395378D+00	0.904317D+00	66.38	0.978118
95.0	0.807206D+00	0.602860D+00	36.75	1.015022
96.0	0.100877D+01	0.145485D+00	8.21	1.038780
97.0	0.940816D+00	-0.353592D+00	-20.60	1.010162
98.0	0.616662D+00	-0.764588D+00	-51.11	0.964866
99.0	0.121914D+00	-0.975316D+00	-82.88	0.966104
100.0	-0.407005D+00	-0.922464D+00	-113.81	1.016594
101.0	-0.820443D+00	-0.612323D+00	-143.26	1.048065
102.0	-0.998777D+00	-0.123953D+00	-172.93	1.012920
103.0	-0.888524D+00	0.458238D+00	155.32	0.956132
104.0	-0.519985D+00	0.829912D+00	122.07	0.959138
105.0	-0.328352D-03	0.101161D+01	90.02	1.023355
106.0	0.516724D+00	0.890155D+00	59.87	1.059379
107.0	0.876149D+00	0.493017D+00	29.37	1.010702
108.0	0.968523D+00	-0.641894D-01	-3.79	0.942157
109.0	0.764312D+00	-0.609184D+00	-38.56	0.955278
110.0	0.324653D+00	-0.965868D+00	-71.42	1.038301
111.0	-0.215442D+00	-0.101259D+01	-102.01	1.071750
112.0	-0.687274D+00	-0.726155D+00	-133.42	0.999647
113.0	-0.940501D+00	-0.194963D+00	-168.29	0.922553
114.0	-0.891315D+00	0.405954D+00	155.51	0.959241
115.0	-0.551415D+00	0.871911D+00	122.31	1.064287
116.0	-0.275784D-01	0.103933D+01	91.52	1.080974
117.0	0.509707D+00	0.845459D+00	58.92	0.974594
118.0	0.880223D+00	0.358404D+00	21.93	0.9C0394
119.0	0.954230D+00	-0.261844D+00	-15.34	0.979116
120.0	0.699066D+00	-0.782924D+00	-48.24	1.101692
121.0	0.195308D+00	-0.101964D+01	-79.16	1.077803
122.0	-0.385905D+00	-0.884545D+00	-113.57	0.931343
123.0	-0.838800D+00	-0.426580D+00	-153.04	0.885556
124.0	-0.995456D+00	0.184634D+00	169.48	1.025096
125.0	-0.789308D+00	0.721697D+00	137.56	1.143655
126.0	-0.285489D+00	0.982976D+00	106.20	1.047745
127.0	0.336237D+00	0.871400D+00	68.90	0.872392
128.0	0.843398D+00	0.431556D+00	27.10	0.897561
129.0	0.103736D+01	-0.166334D+00	-9.11	1.103778
130.0	0.832559D+00	-0.691594D+00	-39.72	1.171457
131.0	0.296452D+00	-0.942427D+00	-72.54	0.976052
132.0	-0.369039D+00	-0.824598D+00	-114.11	0.816152
133.0	-0.901516D+00	-0.388263D+00	-156.70	0.963479
134.0	-0.108147D+01	0.191995D+00	169.93	1.206442
135.0	-0.824461D+00	0.686407D+00	140.22	1.150889

CIRCULAR OP POLARIZATION KA= 40.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.524418D-02	0.441892D-02	40.12	0.000047
91.0	0.198525D-01	0.136551D-01	34.52	0.000581
92.0	0.266841D-01	0.210937D-01	38.33	0.001157
93.0	0.235957D-01	0.216105D-01	42.49	0.001024
94.0	0.127009D-01	0.123165D-01	44.12	0.000313
95.0	-0.770280D-03	-0.529847D-02	-98.27	0.000029
96.0	-0.110734D-01	-0.251468D-01	-113.77	0.000755
97.0	-0.147168D-01	-0.386781D-01	-110.83	0.001713
98.0	-0.119816D-01	-0.386301D-01	-107.23	0.001536
99.0	-0.639645D-02	-0.227368D-01	-105.71	0.000558
100.0	-0.244016D-02	0.485712D-02	118.70	0.000026
101.0	-0.271915D-02	0.327993D-01	94.74	0.001083
102.0	-0.622661D-02	0.505147D-01	97.03	0.002591
103.0	-0.878512D-02	0.493535D-01	100.09	0.002513
104.0	-0.561108D-02	0.285688D-01	101.11	0.000848
105.0	0.530294D-02	-0.423667D-02	-38.62	0.000046
106.0	0.209349D-01	-0.360121D-01	-59.83	0.001735
107.0	0.336758D-01	-0.537731D-01	-57.94	0.004026
108.0	0.347170D-01	-0.502944D-01	-55.38	0.003735
109.0	0.189888D-01	-0.273429D-01	-55.23	0.001108
110.0	-0.108922D-01	0.511708D-02	154.84	0.000145
111.0	-0.440040D-01	0.334406D-01	142.77	0.003055
112.0	-0.649554D-01	0.464482D-01	144.43	0.006377
113.0	-0.608449D-01	0.402901D-01	146.49	0.005325
114.0	-0.283372D-01	0.197221D-01	145.16	0.001192
115.0	0.228156D-01	-0.474909D-02	-11.76	0.000543
116.0	0.721994D-01	-0.223278D-01	-17.18	0.005711
117.0	0.968433D-01	-0.271615D-01	-15.67	0.010116
118.0	0.818349D-01	-0.206464D-01	-14.16	0.007123
119.0	0.285826D-01	-0.968260D-02	-18.71	0.000911
120.0	-0.436317D-01	-0.196242D-02	-177.42	0.001908
121.0	-0.104426D+00	-0.105276D-02	-179.42	0.010906
122.0	-0.125174D+00	-0.421772D-02	-178.07	0.015686
123.0	-0.925015D-01	-0.443618D-02	-177.25	0.008576
124.0	-0.160651D-01	0.437948D-02	164.75	0.000277
125.0	0.736619D-01	0.220342D-01	16.65	0.005912
126.0	0.137520D+00	0.401052D-01	16.26	0.020520
127.0	0.168917D+00	0.453319D-01	17.37	0.023056
128.0	0.885572D-01	0.272670D-01	17.11	0.008586
129.0	-0.104704D-01	-0.137220D-01	-127.35	0.000298
130.0	-0.110350D+00	-0.630167D-01	-150.27	0.016148
131.0	-0.166313D+00	-0.960769D-01	-149.99	0.036891
132.0	-0.150928D+00	-0.898319D-01	-149.24	0.030849
133.0	-0.676401D-01	-0.361900D-01	-151.85	0.005885
134.0	0.491587D-01	0.495355D-01	45.22	0.004870
135.0	0.146310D+00	0.131133D+00	41.48	0.039192

CIRCULAR PP POLARIZATION KA= 40.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.824461D+00	0.686407D+00	140.22	1.150889
136.0	-0.222830D+00	0.901192D+00	103.89	0.861800
137.0	0.484085D+00	0.755326D+00	57.34	0.804857
138.0	0.100351D+01	0.312105D+00	17.28	1.108445
139.0	0.111080D+01	-0.247202D+00	-12.55	1.294980
140.0	0.748464D+00	-0.696958D+00	-42.96	1.045949
141.0	0.584198D-01	-0.858249D+00	-86.11	0.740004
142.0	-0.670765D+00	-0.670561D+00	-135.01	0.899579
143.0	-0.112340D+01	-0.215091D+00	-169.16	1.308281
144.0	-0.109404D+01	0.319549D+00	163.72	1.299025
145.0	-0.582727D+00	0.714976D+00	129.18	0.850761
146.0	0.196788D+00	0.812146D+00	76.38	0.698307
147.0	0.904136D+00	0.575540D+00	32.48	1.148707
148.0	0.122030D+01	0.106392D+00	4.98	1.500450
149.0	0.992496D+00	-0.400038D+00	-21.95	1.145079
150.0	0.309771D+00	-0.735282D+00	-67.15	0.636598
151.0	-0.528624D+00	-0.763182D+00	-124.71	0.861891
152.0	-0.114262D+01	-0.475104D+00	-157.42	1.531316
153.0	-0.124336D+01	0.752535D-02	179.65	1.546005
154.0	-0.770061D+00	0.483992D+00	147.85	0.827242
155.0	0.733946D-01	0.757209D+00	84.46	0.578753
156.0	0.903765D+00	0.714648D+00	38.34	1.327509
157.0	0.133106D+01	0.374231D+00	15.70	1.911817
158.0	0.114143D+01	-0.123326D+00	-6.17	1.318061
159.0	0.404328D+00	-0.572331D+00	-54.76	0.491044
160.0	-0.549193D+00	-0.786321D+00	-124.93	0.919859
161.0	-0.127275D+01	-0.674390D+00	-152.08	2.074695
162.0	-0.141204D+01	-0.278732D+00	-168.83	2.071536
163.0	-0.876429D+00	0.241643D+00	164.59	0.826519
164.0	0.306500D+00	0.674425D+00	81.03	0.466191
165.0	0.108531D+01	0.839245D+00	37.71	1.882234
166.0	0.158505D+01	0.660647D+00	22.58	2.961541
167.0	0.134960D+01	0.199839D+00	8.42	1.861348
168.0	0.437869D+00	-0.367310D+00	-39.99	0.326645
169.0	-0.753396D+00	-0.817331D+00	-132.67	1.235635
170.0	-0.167764D+01	-0.965028D+00	-150.09	3.745754
171.0	-0.187962D+01	-0.734749D+00	-158.65	4.072821
172.0	-0.120571D+01	-0.189550D+00	-171.07	1.489654
173.0	0.119191D+00	0.492744D+00	76.40	0.257003
174.0	0.158652D+01	0.108704D+01	34.42	3.698703
175.0	0.262975D+01	0.140581D+01	28.13	8.891917
176.0	0.287803D+01	0.136869D+01	25.43	10.156363
177.0	0.232068D+01	0.103027D+01	23.94	6.446998
178.0	0.130588D+01	0.555919D+00	23.06	2.014379
179.0	0.373550D+00	0.155396D+00	22.59	0.163688
180.0	0.360242D-08	-0.400112D-09	-6.34	0.000000

CIRCULAR OP POLARIZATION KA= 40.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.148310D+00	0.131133D+00	41.48	0.039192
136.0	0.184506D+00	0.165940D+00	41.97	0.061578
137.0	0.139249D+00	0.125924D+00	42.12	0.035247
138.0	0.303727D-01	0.154633D-01	26.98	0.001162
139.0	-0.948093D-01	-0.124243D+00	-127.35	0.024425
140.0	-0.180176D+00	-0.229036D+00	-128.19	0.084921
141.0	-0.186226D+00	-0.240154D+00	-127.79	0.092354
142.0	-0.108621D+00	-0.135077D+00	-128.80	0.030045
143.0	0.189741D-01	0.545247D-01	70.81	0.003333
144.0	0.139504D+00	0.249183D+00	60.76	0.081554
145.0	0.198240D+00	0.353281D+00	60.70	0.164108
146.0	0.167940D+00	0.300217D+00	60.78	0.118334
147.0	0.616841D-01	0.905484D-01	55.74	0.012004
148.0	-0.726581D-01	-0.197202D+00	-110.23	0.044168
149.0	-0.174142D+00	-0.432940D+00	-111.91	0.217762
150.0	-0.196660D+00	-0.491390D+00	-111.81	0.280139
151.0	-0.130167D+00	-0.315174D+00	-112.44	0.116278
152.0	-0.530388D-02	0.457173D-01	96.62	0.002118
153.0	0.120770D+00	0.441410D+00	74.70	0.209428
154.0	0.190771D+00	0.680335D+00	74.34	0.499249
155.0	0.173605D+00	0.617482D+00	74.30	0.411422
156.0	0.783665D-01	0.234015D+00	71.49	0.060904
157.0	-0.503742D-01	-0.332298D+00	-98.62	0.112959
158.0	-0.153606D+00	-0.828795D+00	-100.50	0.710496
159.0	-0.185212D+00	-0.993259D+00	-100.56	1.020867
160.0	-0.132800D+00	-0.682121D+00	-101.02	0.482926
161.0	-0.224850D-01	0.369325D-01	121.33	0.001870
162.0	0.941983D-01	0.879000D+00	83.88	0.781514
163.0	0.164664D+00	0.146083D+01	83.48	2.103114
164.0	0.159261D+00	0.137610D+01	83.40	1.919009
165.0	0.837603D-01	0.577673D+00	81.75	0.340722
166.0	-0.249540D-01	-0.717776D+00	-91.99	0.515825
167.0	-0.117199D+00	-0.196697D+01	-93.41	3.882695
168.0	-0.153599D+00	-0.251003D+01	-93.50	6.323822
169.0	-0.122015D+00	-0.185840D+01	-93.76	3.468523
170.0	-0.408692D-01	0.265357D-01	147.01	0.002374
171.0	0.516251D-01	0.258522D+01	88.86	6.686020
172.0	0.116154D+00	0.472812D+01	88.59	22.368649
173.0	0.129452D+00	0.513095D+01	88.55	26.383413
174.0	0.920496D-01	0.267829D+01	88.03	7.181707
175.0	0.240681D-01	-0.309101D+01	-89.55	9.554929
176.0	-0.473227D-01	-0.117015D+02	-90.23	136.927529
177.0	-0.101413D+00	-0.217429D+02	-90.27	472.763102
178.0	-0.131403D+00	-0.311836D+02	-90.24	972.434658
179.0	-0.102800D+00	-0.379145D+02	-90.22	1437.527495
180.0	-0.145115D+00	-0.403534D+02	-90.21	1628.420914

CIRCULAR PP POLARIZATION KA= 45.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.458164D+00	-0.891496D+00	-63.00	1.001030
1.0	0.457760D+00	-0.892731D+00	-63.16	1.001056
2.0	0.444197D+00	-0.896499D+00	-63.64	1.001021
3.0	0.430604D+00	-0.902931D+00	-64.50	1.000704
4.0	0.410008D+00	-0.912103D+00	-65.80	1.000039
5.0	0.381776D+00	-0.923872D+00	-67.55	0.999292
6.0	0.3[illegible]837D+00	-0.93773[illegible]D+00	-69.76	0.998956
7.0	0.332587D+00	-0.952798D+00	-72.38	0.999383
8.0	0.252532D+00	-0.967811D+00	-75.38	1.000431
9.0	0.195920D+00	-0.981354D+00	-78.71	1.001431
10.0	0.132571D+00	-0.992003D+00	-82.39	1.001645
11.0	0.620156D-01	-0.998452D+00	-86.45	1.000753
12.0	-0.161112D-01	-0.999500D+00	-90.92	0.999260
13.0	-0.101657D+00	-0.993919D+00	-95.84	0.998209
14.0	-0.193717D+00	-0.980274D+00	-101.18	0.998864
15.0	-0.290700D+00	-0.956814D+00	-106.90	1.000000
16.0	-0.390612D+00	-0.921527D+00	-112.97	1.001789
17.0	-0.491357D+00	-0.872380D+00	-119.39	1.002478
18.0	-0.590861D+00	-0.807659D+00	-126.19	1.001430
19.0	-0.686917D+00	-0.726269D+00	-133.40	0.999322
20.0	-0.776860D+00	-0.627875D+00	-141.05	0.997739
21.0	-0.857288D+00	-0.512865D+00	-149.11	0.997973
22.0	-0.924030D+00	-0.382213D+00	-157.53	0.999918
23.0	-0.972460D+00	-0.237406D+00	-166.28	1.002041
24.0	-0.998040D+00	-0.805485D-01	-175.39	1.002572
25.0	-0.996666D+00	0.853440D-01	175.11	1.001025
26.0	-0.966019D+00	0.255986D+00	165.16	0.998721
27.0	-0.903648D+00	0.425612D+00	154.78	0.997724
28.0	-0.808906D+00	0.587086D+00	144.03	0.999000
29.0	-0.681962D+00	0.732352D+00	132.96	1.001412
30.0	-0.524270D+00	0.853107D+00	121.57	1.002655
31.0	-0.339121D+00	0.941485D+00	109.81	1.001398
32.0	-0.132202D+00	0.990567D+00	97.60	0.998700
33.0	0.980281D-01	0.994706D+00	84.94	0.997190
34.0	0.310509D+00	0.949809D+00	71.90	0.998552
35.0	0.522287D+00	0.853757D+00	58.54	1.001685
36.0	0.709595D+00	0.707110D+00	44.90	1.003530
37.0	0.859005D+00	0.513976D+00	30.89	1.002061
38.0	0.958427D+00	0.282763D+00	16.44	0.998537
39.0	0.997904D+00	0.264394D-01	1.52	0.996511
40.0	0.970366D+00	-0.237969D+00	-13.78	0.998240
41.0	0.872555D+00	-0.490651D+00	-29.35	1.002097
42.0	0.706197D+00	-0.710815D+00	-45.19	1.003973
43.0	0.479153D+00	-0.878649D+00	-61.40	1.001613
44.0	0.206197D+00	-0.977162D+00	-78.08	0.997362
45.0	-0.912182D-01	-0.993801D+00	-95.24	0.995961

CIRCULAR OP POLARIZATION KA= 45.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	-0.289542D-10	-0.145124D-10	-153.38	0.000000
1.0	-0.318195D-03	-0.162941D-03	-152.88	0.000000
2.0	-0.106417D-02	-0.570158D-03	-151.82	0.000001
3.0	-0.173867D-02	-0.101222D-02	-149.79	0.000004
4.0	-0.185630D-02	-0.124493D-02	-146.15	0.000005
5.0	-0.124561D-02	-0.110378D-02	-138.45	0.000003
6.0	-0.164577D-03	-0.590851D-03	-105.56	0.000000
7.0	0.839978D-03	0.109374D-03	7.42	0.000001
8.0	0.124901D-02	0.702302D-03	29.37	0.000002
9.0	0.870729D-03	0.919746D-03	46.57	0.000002
10.0	-0.375432D-04	0.659181D-03	93.26	0.000000
11.0	-0.928075D-03	0.521696D-04	176.78	0.000001
12.0	-0.128095D-02	-0.584653D-03	-155.47	0.000002
13.0	-0.910561D-03	-0.904118D-03	-135.20	0.000002
14.0	-0.720798D-04	-0.718924D-03	-95.76	0.000001
15.0	0.697530D-03	-0.971804D-04	-7.93	0.000000
16.0	0.908913D-03	0.624845D-03	34.53	0.000001
17.0	0.[illegible]D-03	0.105427D-02	68.62	0.000001
18.0	-0.479142D-03	0.987387D-03	116.86	0.000001
19.0	-0.122703D-02	0.366984D-03	163.35	0.000002
20.0	-0.135103D-02	-0.335351D-03	-166.06	0.000002
21.0	-0.755469D-03	-0.711520D-03	-136.72	0.000001
22.0	0.211570D-03	-0.481797D-03	-66.29	0.000000
23.0	0.966895D-03	0.283048D-03	16.32	0.000001
24.0	0.105427D-02	0.118018D-02	48.23	0.000003
25.0	0.437275D-03	0.169776D-02	75.56	0.000003
26.0	-0.[illegible]D-03	0.152044D-02	106.94	0.000003
27.0	-0.101806D-02	0.738403D-03	143.19	0.000002
28.0	-0.784097D-03	-0.207772D-03	-165.50	0.000001
29.0	0.206235D-03	-0.721838D-03	-74.14	0.000001
30.0	0.143980D-02	-0.510900D-03	-19.54	0.000002
31.0	0.222263D-02	0.302452D-03	7.75	0.000005
32.0	0.210753D-02	0.116590D-02	28.95	0.000006
33.0	0.118481D-02	0.183918D-02	50.54	0.000003
34.0	0.451442D-04	0.789296D-03	86.73	0.000001
35.0	-0.578603D-03	-0.573929D-03	-135.23	0.000001
36.0	-0.279242D-03	-0.198621D-02	-98.00	0.000004
37.0	0.739902D-03	-0.270868D-02	-74.72	0.000008
38.0	0.175611D-02	-0.237959D-02	-53.57	0.000009
39.0	0.195923D-02	-0.125693D-02	-32.68	0.000005
40.0	0.969984D-03	-0.833621D-04	-4.91	0.000001
41.0	-0.880525D-03	0.366673D-03	157.39	0.000001
42.0	-0.270334D-02	-0.209148D-03	-175.58	0.000007
43.0	-0.356636D-02	-0.140569D-02	-158.49	0.000015
44.0	-0.306610D-02	-0.231547D-02	-142.94	0.000015
45.0	-0.159593D-02	-0.207756D-02	-127.53	0.000007

CIRCULAR PP POLARIZATION KA= 85.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.912182D-01	-0.993601D+00	-95.24	0.995961
46.0	-0.386415D+00	-0.921953D+00	-112.74	0.999313
47.0	-0.650144D+00	-0.762403D+00	-130.46	1.003946
48.0	-0.853959D+00	-0.524666D+00	-148.43	1.004522
49.0	-0.973716D+00	-0.227774D+00	-166.83	1.000003
50.0	-0.992647D+00	0.100087D+00	174.24	0.995365
51.0	-0.903753D+00	0.423595D+00	154.89	0.996203
52.0	-0.711430D+00	0.704131D+00	135.30	1.001933
53.0	-0.432308D+00	0.904967D+00	115.53	1.005856
54.0	-0.950852D-01	0.996919D+00	95.45	1.002889
55.0	0.261106D+00	0.963323D+00	74.83	0.996167
56.0	0.590296D+00	0.803422D+00	53.69	0.993936
57.0	0.845412D+00	0.533634D+00	32.26	0.999486
58.0	0.985656D+00	0.186575D+00	10.72	1.006328
59.0	0.984258D+00	-0.192020D+00	-11.04	1.005635
60.0	0.834847D+00	-0.548358D+00	-33.30	0.997667
61.0	0.554721D+00	-0.827464D+00	-56.16	0.992411
62.0	0.183906D+00	-0.981515D+00	-79.39	0.997193
63.0	-0.220102D+00	-0.978766D+00	-102.67	1.006427
64.0	-0.591104D+00	-0.811455D+00	-126.07	1.007863
65.0	-0.864981D+00	-0.500597D+00	-149.94	0.998790
66.0	-0.990518D+00	-0.956272D-01	-174.49	0.990865
67.0	-0.940710D+00	0.332218D+00	160.55	0.995304
68.0	-0.716727D+00	0.702318D+00	135.58	1.006949
69.0	-0.353548D+00	0.940660D+00	110.60	1.009837
70.0	0.845594D-01	0.995916D+00	85.15	0.998999
71.0	0.513165D+00	0.851786D+00	58.93	0.988876
72.0	0.843062D+00	0.532525D+00	32.28	0.994337
73.0	0.999388D+00	0.100108D+00	5.72	1.008798
74.0	0.940418D+00	-0.356787D+00	-20.77	1.011654
75.0	0.670933D+00	-0.739869D+00	-47.80	0.997557
76.0	0.245438D+00	-0.962230D+00	-75.69	0.986155
77.0	-0.240800D+00	-0.968000D+00	-103.97	0.995009
78.0	-0.673198D+00	-0.747867D+00	-131.99	1.012501
79.0	-0.945070D+00	-0.345492D+00	-159.92	1.012522
80.0	-0.985833D+00	0.147971D+00	171.46	0.993379
81.0	-0.779993D+00	0.612159D+00	141.87	0.983128
82.0	-0.375587D+00	0.926097D+00	112.08	0.998721
83.0	0.127202D+00	0.100088D+01	82.76	1.017938
84.0	0.598783D+00	0.807437D+00	53.44	1.010497
85.0	0.913009D+00	0.390102D+00	23.14	0.985764
86.0	0.980960D+00	-0.140410D+00	-8.15	0.981998
87.0	0.777242D+00	-0.634998D+00	-39.25	1.007328
88.0	0.351169D+00	-0.948585D+00	-69.69	1.023133
89.0	-0.181852D+00	-0.984583D+00	-100.46	1.002474
90.0	-0.668795D+00	-0.727140D+00	-132.61	0.976019

CIRCULAR OP POLARIZATION KA= 85.000

THETA	REAL	IMAG	PHASE	NRCS
45.0	-0.159593D-02	-0.207756D-02	-127.53	0.000007
46.0	-0.121392D-03	-0.446245D-03	-105.22	0.000000
47.0	0.423278D-03	0.198252D-02	77.95	0.000004
48.0	-0.247576D-03	0.405808D-02	93.49	0.000017
49.0	-0.153866D-02	0.473243D-02	108.01	0.000025
50.0	-0.230534D-02	0.369839D-02	121.94	0.000019
51.0	-0.157773D-02	0.160279D-02	134.55	0.000005
52.0	-0.760280D-03	-0.328195D-03	-23.35	0.000001
53.0	0.377942D-02	-0.104967D-02	-15.52	0.000015
54.0	0.596474D-02	-0.380030D-03	-3.65	0.000036
55.0	0.608646D-02	0.843651D-03	7.89	0.000038
56.0	0.396135D-02	0.127826D-02	17.89	0.000017
57.0	0.616585D-03	-0.258401D-04	-2.40	0.000000
58.0	-0.228518D-02	-0.289467D-02	-128.29	0.000014
59.0	-0.343870D-02	-0.596481D-02	-119.96	0.000047
60.0	-0.269742D-02	-0.739133D-02	-110.05	0.000062
61.0	-0.115668D-02	-0.595006D-02	-101.00	0.000037
62.0	-0.421385D-03	-0.186917D-02	-102.70	0.000004
63.0	-0.148524D-02	0.315876D-02	115.18	0.000012
64.0	-0.393671D-02	0.685614D-02	119.86	0.000063
65.0	-0.605304D-02	0.764448D-02	128.37	0.000095
66.0	-0.581112D-02	0.555622D-02	136.28	0.000065
67.0	-0.224579D-02	0.218370D-02	135.80	0.000010
68.0	0.369677D-02	-0.347132D-03	-5.36	0.000014
69.0	0.942057D-02	-0.763422D-03	-4.63	0.000090
70.0	0.120100D-01	0.496683D-03	2.37	0.000184
71.0	0.989881D-02	0.156003D-02	8.96	0.000100
72.0	0.387164D-02	0.429837D-03	6.34	0.000015
73.0	-0.326586D-02	-0.346523D-02	-133.30	0.000023
74.0	-0.822509D-02	-0.851961D-02	-133.99	0.000140
75.0	-0.909216D-02	-0.116115D-01	-128.06	0.000217
76.0	-0.636652D-02	-0.992282D-02	-122.68	0.000139
77.0	-0.250387D-02	-0.287301D-02	-131.01	0.000015
78.0	-0.213506D-03	0.706801D-02	91.73	0.000050
79.0	-0.585923D-03	0.153624D-01	92.18	0.000236
80.0	-0.230229D-02	0.177511D-01	97.39	0.000320
81.0	-0.254441D-02	0.1[illegible]D-01	101.34	0.000167
82.0	0.882678D-03	0.236774D-02	69.55	0.000006
83.0	0.757829D-02	-0.833034D-02	-47.71	0.000127
84.0	0.141421D-01	-0.145025D-01	-45.72	0.000410
85.0	0.158560D-01	-0.139002D-01	-41.22	0.000445
86.0	0.970242D-02	-0.803562D-02	-39.63	0.000159
87.0	-0.327765D-02	-0.100581D-02	-162.94	0.000012
88.0	-0.176347D-01	0.323702D-02	169.60	0.000321
89.0	-0.260195D-01	0.341921D-02	172.51	0.000689
90.0	-0.231786D-01	0.159356D-02	176.07	0.000540

CIRCULAR PP POLARIZATION KA= 45.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.668795D+00	-0.727140D+00	-132.61	0.976019
91.0	-0.961717D+00	-0.249757D+00	-165.44	0.987278
92.0	-0.963650D+00	0.304021D+00	162.49	1.021049
93.0	-0.663485D+00	0.763129D+00	131.00	1.022579
94.0	-0.146690D+00	0.982139D+00	98.49	0.986116
95.0	0.425258D+00	0.888427D+00	64.42	0.970147
96.0	0.863744D+00	0.507973D+00	30.46	1.004090
97.0	0.101623D+01	-0.394794D-01	-2.22	1.034285
98.0	0.822375D+00	-0.575900D+00	-35.00	1.007960
99.0	0.341373D+00	-0.921373D+00	-69.67	0.965463
100.0	-0.262601D+00	-0.954357D+00	-105.38	0.979757
101.0	-0.775121D+00	-0.656100D+00	-139.75	1.031279
102.0	-0.100861D+01	-0.122843D+00	-173.06	1.032380
103.0	-0.873617D+00	0.461373D+00	152.16	0.976071
104.0	-0.416215D+00	0.885594D+00	115.17	0.957512
105.0	0.195084D+00	0.987862D+00	78.83	1.013929
106.0	0.730266D+00	0.719366D+00	44.57	1.050776
107.0	0.984833D+00	0.170870D+00	9.84	0.999092
108.0	0.859664D+00	-0.453218D+00	-27.80	0.944429
109.0	0.401923D+00	-0.908498D+00	-66.14	0.986910
110.0	-0.210489D+00	-0.100686D+01	-101.81	1.058071
111.0	-0.736562D+00	-0.697477D+00	-136.56	1.028997
112.0	-0.966631D+00	-0.964971D-01	-174.30	0.943668
113.0	-0.806838D+00	0.552335D+00	145.61	0.956055
114.0	-0.319415D+00	0.975172D+00	108.14	1.052987
115.0	0.298870D+00	0.985438D+00	73.13	1.060412
116.0	0.793873D+00	0.570075D+00	35.68	0.955220
117.0	0.957496D+00	-0.967661D-01	-5.77	0.926162
118.0	0.716071D+00	-0.723949D+00	-45.31	1.036860
119.0	0.166077D+00	-0.103058D+01	-80.85	1.089686
120.0	-0.460750D+00	-0.874589D+00	-117.78	0.977196
121.0	-0.892244D+00	-0.322468D+00	-160.13	0.900085
122.0	-0.933333D+00	0.375569D+00	158.08	1.012164
123.0	-0.556144D+00	0.897782D+00	121.78	1.115308
124.0	0.794730D-01	0.100055D+01	85.46	1.007420
125.0	0.689457D+00	0.635164D+00	42.65	0.878785
126.0	0.990324D+00	-0.257450D-01	-1.49	0.981405
127.0	0.831761D+00	-0.667721D+00	-38.76	1.137678
128.0	0.274903D+00	-0.984221D+00	-74.39	1.044263
129.0	-0.425589D+00	-0.825023D+00	-117.29	0.861789
130.0	-0.934581D+00	-0.270385D+00	-163.86	0.946550
131.0	-0.996508D+00	0.407030D+00	157.78	1.158701
132.0	-0.566375D+00	0.875414D+00	122.90	1.087130
133.0	0.156488D+00	0.907322D+00	80.21	0.867722
134.0	0.816474D+00	0.492222D+00	31.08	0.908912
135.0	0.107532D+01	-0.158717D+00	-8.40	1.181507

CIRCULAR OP POLARIZATION KA= 45.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.231786D-01	0.159356D-02	176.07	0.000540
91.0	-0.928015D-02	0.139846D-02	171.39	0.000087
92.0	0.978591D-02	0.503273D-02	27.22	0.000121
93.0	0.248492D-01	0.110390D-01	23.95	0.000739
94.0	0.286190D-01	0.146369D-01	27.09	0.001033
95.0	0.194878D-01	0.107535D-01	28.89	0.000495
96.0	0.244609D-02	-0.199057D-02	-39.14	0.000010
97.0	-0.137637D-01	-0.190299D-01	-125.88	0.000552
98.0	-0.215806D-01	-0.312719D-01	-124.61	0.001444
99.0	-0.187064D-01	-0.299482D-01	-121.99	0.001247
100.0	-0.888077D-02	-0.123257D-01	-125.77	0.000231
101.0	0.105481D-02	0.152800D-01	86.05	0.000235
102.0	0.583869D-02	0.395688D-01	81.61	0.001600
103.0	0.508930D-02	0.469116D-01	83.81	0.002227
104.0	0.297100D-02	0.311803D-01	84.56	0.000981
105.0	0.441798D-02	-0.181369D-02	-22.32	0.000023
106.0	0.105723D-01	-0.363067D-01	-73.76	0.001430
107.0	0.168831D-01	-0.544705D-01	-72.78	0.003252
108.0	0.157234D-01	-0.461109D-01	-71.17	0.002373
109.0	0.226882D-02	-0.146895D-01	-81.22	0.000221
110.0	-0.202629D-01	0.240285D-01	130.14	0.000988
111.0	-0.401577D-01	0.502684D-01	128.62	0.004140
112.0	-0.430171D-01	0.509637D-01	130.17	0.004448
113.0	-0.211390D-01	0.267965D-01	128.27	0.001165
114.0	0.192894D-01	-0.852027D-02	-23.83	0.000445
115.0	0.586031D-01	-0.362797D-01	-31.76	0.004751
116.0	0.730422D-01	-0.433830D-01	-30.69	0.007214
117.0	0.487918D-01	-0.289074D-01	-30.71	0.003221
118.0	-0.745894D-02	-0.401815D-02	-151.69	0.000072
119.0	-0.687623D-01	0.167951D-01	166.27	0.005010
120.0	-0.100658D+00	0.240207D-01	166.58	0.010709
121.0	-0.805463D-01	0.184691D-01	167.09	0.006829
122.0	-0.128340D-01	0.874984D-02	145.71	0.000241
123.0	0.699500D-01	0.357300D-02	2.92	0.004906
124.0	0.122604D+00	0.459787D-02	2.15	0.015053
125.0	0.112097D+00	0.533436D-02	2.72	0.012594
126.0	0.380972D-01	-0.272801D-02	-4.10	0.001459
127.0	-0.638497D-01	-0.211377D-01	-161.57	0.004473
128.0	-0.137591D+00	-0.398480D-01	-163.85	0.020519
129.0	-0.140334D+00	-0.418350D-01	-163.40	0.021444
130.0	-0.648908D-01	-0.154219D-01	-166.62	0.004449
131.0	0.515136D-01	0.335841D-01	33.10	0.003782
132.0	0.145801D+00	0.798014D-01	28.69	0.027626
133.0	0.163483D+00	0.903410D-01	28.93	0.034888
134.0	0.904507D-01	0.462636D-01	27.09	0.010322
135.0	-0.365615D-01	-0.398755D-01	-132.52	0.002927

CIRCULAR PP POLARIZATION KA= 45.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	0.107532D+01	-0.158717D+00	-8.40	1.181507
136.0	0.787431D+00	-0.718735D+00	-42.39	1.136629
137.0	0.852184D-01	-0.909649D+00	-84.65	0.834723
138.0	-0.676779D+00	-0.641327D+00	-136.58	0.869330
139.0	-0.109877D+01	-0.558182D-01	-177.09	1.210420
140.0	-0.946663D+00	0.546323D+00	150.01	1.194639
141.0	-0.285242D+00	0.859857D+00	108.35	0.820717
142.0	0.543518D+00	0.730158D+00	53.34	0.828542
143.0	0.109457D+01	0.230572D+00	11.90	1.251244
144.0	0.105924D+01	-0.377466D+00	-19.61	1.264459
145.0	0.441049D+00	-0.780449D+00	-60.53	0.803625
146.0	-0.433535D+00	-0.774415D+00	-119.24	0.787671
147.0	-0.108442D+01	-0.368723D+00	-161.22	1.311920
148.0	-0.114121D+01	0.221122D+00	169.03	1.351263
149.0	-0.556374D+00	0.687058D+00	129.00	0.781601
150.0	0.355544D+00	0.788882D+00	65.73	0.748817
151.0	0.108408D+01	0.478063D+00	23.80	1.403768
152.0	0.120709D+01	-0.789028D-01	-3.74	1.463284
153.0	0.637704D+00	-0.588912D+00	-42.72	0.753483
154.0	-0.313676D+00	-0.785718D+00	-111.76	0.715746
155.0	-0.110492D+01	-0.568339D+00	-152.78	1.543866
156.0	-0.126952D+01	-0.526885D-01	-177.62	1.614715
157.0	-0.692718D+00	0.489807D+00	144.74	0.719769
158.0	0.308811D+00	0.774143D+00	68.25	0.694662
159.0	0.115637D+01	0.650286D+00	29.35	1.760065
160.0	0.134166D+01	0.181401D+00	7.70	1.832970
161.0	0.730793D+00	-0.388506D+00	-28.00	0.684996
162.0	-0.340987D+00	-0.760653D+00	-114.15	0.694864
163.0	-0.124934D+01	-0.736284D+00	-149.49	2.102975
164.0	-0.144090D+01	-0.320673D+00	-167.45	2.179018
165.0	-0.766958D+00	0.277091D+00	160.14	0.665004
166.0	0.408781D+00	0.746784D+00	61.37	0.727780
167.0	0.140272D+01	0.843472D+00	31.02	2.679074
168.0	0.160303D+01	0.496786D+00	17.22	2.816507
169.0	0.837168D+00	-0.132123D+00	-8.97	0.716307
170.0	-0.102714D+00	-0.734938D+00	-124.37	0.792856
171.0	-0.165979D+01	-0.100334D+01	-148.85	3.761598
172.0	-0.193272D+01	-0.779454D+00	-156.04	4.342968
173.0	-0.107807D+01	-0.133630D+00	-172.93	1.180095
174.0	0.539181D+00	0.668500D+00	51.11	0.737609
175.0	0.213984D+01	0.129324D+01	31.15	6.251383
176.0	0.296322D+01	0.149795D+01	26.82	11.028526
177.0	0.269160D+01	0.124454D+01	24.81	8.793616
178.0	0.162140D+01	0.712441D+00	23.72	3.136512
179.0	0.480946D+00	0.205657D+00	23.15	0.273604
180.0	0.190320D-06	0.953902D-09	26.62	0.000000

CIRCULAR OP POLARIZATION KA= 45.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.365615D-01	-0.398755D-01	-132.52	0.002927
136.0	-0.148258D+00	-0.123779D+00	-140.14	0.037302
137.0	-0.180853D+00	-0.150917D+00	-140.16	0.055484
138.0	-0.112875D+00	-0.902384D-01	-141.36	0.020885
139.0	0.206921D-01	0.399076D-01	62.59	0.002021
140.0	0.146275D+00	0.172603D+00	49.72	0.051188
141.0	0.192468D+00	0.225094D+00	49.47	0.087711
142.0	0.131073D+00	0.148539D+00	48.57	0.039244
143.0	-0.546649D-02	-0.341121D-01	-99.10	0.001194
144.0	-0.141082D+00	-0.228838D+00	-121.65	0.072271
145.0	-0.198718D+00	-0.316632D+00	-122.11	0.139745
146.0	-0.144545D+00	-0.223918D+00	-122.84	0.071031
147.0	-0.812938D-02	0.230980D-01	109.39	0.000600
148.0	0.133627D+00	0.297283D+00	65.80	0.106233
149.0	0.200101D+00	0.432741D+00	65.18	0.227305
150.0	0.153231D+00	0.321908D+00	64.55	0.127104
151.0	0.196318D-01	-0.732909D-02	-20.47	0.000439
152.0	-0.124462D+00	-0.386165D+00	-107.87	0.164619
153.0	-0.197056D+00	-0.586480D+00	-108.57	0.382790
154.0	-0.157330D+00	-0.463166D+00	-109.15	0.230113
155.0	-0.290198D-01	-0.132530D-01	-155.45	0.001018
156.0	0.113828D+00	0.509889D+00	77.42	0.272944
157.0	0.189873D+00	0.802077D+00	76.68	0.679380
158.0	0.157204D+00	0.688504D+00	76.17	0.432401
159.0	0.366509D-01	0.399345D-01	47.46	0.002938
160.0	-0.101448D+00	-0.695739D+00	-98.30	0.494345
161.0	-0.178637D+00	-0.112805D+01	-99.00	1.304398
162.0	-0.153318D+00	-0.921800D+00	-99.44	0.878222
163.0	-0.432549D-01	-0.771660D-01	-119.27	0.007826
164.0	0.866787D-01	0.100202D+01	85.06	1.011550
165.0	0.163172D+00	0.167436D+01	84.43	2.830705
166.0	0.146258D+00	0.140890D+01	84.07	2.006379
167.0	0.500720D-01	0.139646D+00	70.27	0.022008
168.0	-0.681926D-01	-0.157731D+01	-92.48	2.492548
169.0	-0.142914D+00	-0.274604D+01	-92.98	7.561149
170.0	-0.136921D+00	-0.241940D+01	-93.24	5.872242
171.0	-0.594789D-01	-0.289162D+00	-101.62	0.087153
172.0	0.431639D-01	0.292318D+01	89.15	8.546851
173.0	0.116560D+00	0.552478D+01	88.79	30.536793
174.0	0.127647D+00	0.541954D+01	88.65	29.387735
175.0	0.782158D-01	0.999257D+00	85.52	1.004632
176.0	-0.302121D-02	-0.801499D+01	-90.02	64.240032
177.0	-0.814529D-01	-0.201788D+02	-90.23	407.191880
178.0	-0.135595D+00	-0.326121D+02	-90.24	1063.564215
179.0	-0.162687D+00	-0.419126D+02	-90.22	1756.695392
180.0	-0.170205D+00	-0.453586D+02	-90.21	2057.423797

CIRCULAR PP POLARIZATION KA= 50.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	-0.864136D+00	0.499187D+00	149.99	0.995918
1.0	-0.862683D+00	0.502267D+00	149.80	0.996839
2.0	-0.858663D+00	0.511554D+00	149.22	0.998999
3.0	-0.850374D+00	0.527148D+00	148.21	1.001022
4.0	-0.836793D+00	0.549101D+00	146.73	1.001733
5.0	-0.817153D+00	0.577271D+00	144.76	1.000981
6.0	-0.791263D+00	0.611200D+00	142.32	0.999662
7.0	-0.759191D+00	0.650067D+00	139.43	0.998958
8.0	-0.720749D+00	0.693752D+00	136.13	0.999383
9.0	-0.675727D+00	0.737985D+00	132.45	1.000423
10.0	-0.626986D+00	0.780440D+00	128.36	1.001055
11.0	-0.556902D+00	0.830988D+00	123.83	1.000680
12.0	-0.481917D+00	0.876036D+00	118.82	0.999684
13.0	-0.395929D+00	0.917826D+00	113.33	0.999086
14.0	-0.299078D+00	0.953996D+00	107.41	0.999554
15.0	-0.192366D+00	0.981680D+00	101.09	1.000701
16.0	-0.764313D-01	0.997767D+00	94.38	1.001382
17.0	0.479155D-01	0.999250D+00	87.25	1.000797
18.0	0.179329D+00	0.983470D+00	79.67	0.999373
19.0	0.315408D+00	0.948156D+00	71.60	0.998482
20.0	0.452439D+00	0.891309D+00	63.09	0.999133
21.0	0.585567D+00	0.811151D+00	54.17	1.000855
22.0	0.709293D+00	0.706329D+00	44.88	1.001997
23.0	0.817970D+00	0.576412D+00	35.17	1.001325
24.0	0.906020D+00	0.422505D+00	25.00	0.999383
25.0	0.967860D+00	0.251685D+00	14.35	0.998101
26.0	0.997798D+00	0.570725D-01	3.27	0.993860
27.0	0.990272D+00	-0.142455D+00	-8.19	1.000933
28.0	0.940577D+00	-0.342666D+00	-20.02	1.002106
29.0	0.845949D+00	-0.534241D+00	-32.27	1.001044
30.0	0.706560D+00	-0.706886D+00	-45.01	0.998886
31.0	0.526056D+00	-0.849348D+00	-58.23	0.998128
32.0	0.311525D+00	-0.950119D+00	-71.85	0.999773
33.0	0.731223D-01	-0.998319D+00	-85.81	1.001988
34.0	-0.176314D+00	-0.985378D+00	-100.14	1.002056
35.0	-0.421499D+00	-0.906645D+00	-114.93	0.999667
36.0	-0.644991D+00	-0.762600D+00	-130.22	0.997572
37.0	-0.827982D+00	-0.559367D+00	-145.96	0.998446
38.0	-0.951950D+00	-0.308632D+00	-162.04	1.001462
39.0	-0.100111D+01	-0.272224D-01	-178.44	1.002966
40.0	-0.965150D+00	0.263441D+00	164.73	1.000916
41.0	-0.841472D+00	0.538202D+00	147.60	0.997737
42.0	-0.636434D+00	0.769747D+00	129.58	0.997559
43.0	-0.365423D+00	0.931297D+00	111.42	1.000848
44.0	-0.520338D-01	0.100034D+01	92.98	1.003387
45.0	0.273366D+00	0.962733D+00	74.15	1.001583

CIRCULAR OP POLARIZATION KA= 50.000

THETA	REAL	IMAG	PHASE	NRCS
0.0	0.299629D-10	0.508618D-10	59.50	0.000000
1.0	0.318876D-03	0.108599D-03	18.81	0.000000
2.0	0.102577D-02	0.374875D-03	20.08	0.000001
3.0	0.155271D-02	0.646055D-03	22.59	0.000003
4.0	0.142780D-02	0.747188D-03	27.62	0.000003
5.0	0.625818D-03	0.574376D-03	42.55	0.000001
6.0	-0.397392D-03	0.167315D-03	157.17	0.000000
7.0	-3.101470D-02	-0.287575D-03	-164.18	0.000001
8.0	-0.863784D-03	-0.545310D-03	-147.74	0.000001
9.0	-0.998863D-04	-0.447527D-03	-102.58	0.000000
10.0	0.715446D-03	-0.381473D-04	-3.05	0.000001
11.0	0.191176D-02	0.436095D-03	23.32	0.000001
12.0	0.610376D-03	0.666300D-03	47.51	0.000001
13.0	-0.157614D-03	0.484113D-03	108.03	0.000000
14.0	-0.700125D-03	-0.805885D-05	-179.34	0.000000
15.0	-0.599297D-03	-0.484961D-03	-141.02	0.000001
16.0	0.827024D-04	-0.612337D-03	-82.31	0.000000
17.0	0.850769D-03	-0.288961D-03	-18.76	0.000001
18.0	0.114379D-02	0.259276D-03	12.77	0.000001
19.0	0.752789D-03	0.618696D-03	39.42	0.000001
20.0	-0.196226D-04	0.479456D-03	92.34	0.000000
21.0	-0.581548D-03	-0.125114D-03	-167.86	0.000000
22.0	-0.476445D-03	-0.816544D-03	-121.30	0.000001
23.0	0.179239D-03	-0.112884D-02	-80.98	0.000001
24.0	0.923186D-03	-0.852294D-03	-42.71	0.000002
25.0	0.112952D-02	-0.209113D-03	-10.49	0.000001
26.0	0.568054D-03	0.286999D-03	26.80	0.000000
27.0	-0.425797D-03	0.205345D-03	154.25	0.000000
28.0	-0.118537D-02	-0.461357D-03	-158.73	0.000002
29.0	-0.120933D-02	-0.125475D-02	-133.94	0.000003
30.0	-0.551626D-03	-0.156289D-02	-109.44	0.000003
31.0	0.199356D-03	-0.107454D-02	-79.49	0.000001
32.0	0.356324D-03	-0.373081D-04	-5.98	0.000000
33.0	-0.331022D-03	0.893736D-03	110.32	0.000001
34.0	-0.144765D-02	0.113054D-02	142.01	0.000003
35.0	-0.218605D-02	0.606845D-03	164.49	0.000005
36.0	-0.193907D-02	-0.140742D-03	-175.85	0.000004
37.0	-0.773853D-03	-0.356709D-03	-155.25	0.000001
38.0	0.584279D-03	0.346838D-03	30.69	0.000000
39.0	0.127466D-02	0.164168D-02	52.17	0.000004
40.0	0.955013D-03	0.266343D-02	70.27	0.000008
41.0	0.864856D-04	0.262283D-02	88.11	0.000007
42.0	-0.395497D-03	0.140917D-02	105.68	0.000002
43.0	0.191640D-03	-0.281026D-03	-55.71	0.000000
44.0	0.169340D-02	-0.142371D-02	-40.06	0.000005
45.0	0.314493D-02	-0.142625D-02	-24.39	0.000012

CIRCULAR PP POLARIZATION KA= 50.000

THETA	REAL	IMAG	PHASE	RCS
45.0	0.273366D+00	0.962733D+00	74.15	1.001583
46.0	0.575717D+00	0.816144D+00	54.80	0.997540
47.0	0.818344D+00	0.571878D+00	34.95	0.996731
48.0	0.967342D+00	0.254666D+00	14.75	1.000605
49.0	0.997082D+00	-0.994458D-01	-5.70	1.004062
50.0	0.895868D+00	-0.446682D+00	-26.50	1.002104
51.0	0.670181D+00	-0.740262D+00	-47.84	0.997131
52.0	0.346073D+00	-0.936188D+00	-69.71	0.996214
53.0	-0.330746D-01	-0.999493D+00	-91.89	1.001081
54.0	-0.412166D+00	-0.913812D+00	-114.28	1.004934
55.0	-0.732291D+00	-0.682328D+00	-137.02	1.001820
56.0	-0.939798D+00	-0.335594D+00	-160.35	0.995843
57.0	-0.995292D+00	0.730379D-01	175.80	0.995981
58.0	-0.881677D+00	0.471503D+00	151.71	1.002508
59.0	-0.610011D+00	0.796059D+00	127.46	1.005824
60.0	-0.221522D+00	0.975332D+00	102.80	1.000345
61.0	0.216035D+00	0.973321D+00	77.49	0.994026
62.0	0.618712D+00	0.783700D+00	51.71	0.996989
63.0	0.902612D+00	0.436569D+00	25.81	1.005301
64.0	0.100291D+01	-0.429151D-02	-0.25	1.005854
65.0	0.890850D+00	-0.450999D+00	-26.85	0.997014
66.0	0.583626D+00	-0.807466D+00	-54.14	0.992621
67.0	0.143862D+00	-0.989631D+00	-81.73	1.000461
68.0	-0.332859D+00	-0.947708D+00	-109.31	1.008413
69.0	-0.734491D+00	-0.680760D+00	-137.17	1.002912
70.0	-0.965536D+00	-0.244666D+00	-165.78	0.992122
71.0	-0.963249D+00	0.257611D+00	165.03	0.994212
72.0	-0.719625D+00	0.699210D+00	135.82	1.006755
73.0	-0.287501D+00	0.962311D+00	106.63	1.008700
74.0	0.227154D+00	0.971590D+00	76.84	0.995686
75.0	0.688340D+00	0.718014D+00	46.21	0.989357
76.0	0.965162D+00	0.265199D+00	15.36	1.001868
77.0	0.970712D+00	-0.264611D+00	-15.25	1.012301
78.0	0.692851D+00	-0.722089D+00	-46.18	1.001455
79.0	0.205038D+00	-0.972174D+00	-78.09	0.987462
80.0	-0.349714D+00	-0.934442D+00	-110.52	0.995483
81.0	-0.799859D+00	-0.611082D+00	-142.62	1.013148
82.0	-0.999717D+00	-0.925822D-01	-174.71	1.008006
83.0	-0.879329D+00	0.462910D+00	152.24	0.987504
84.0	-0.471811D+00	0.875437D+00	118.32	0.988995
85.0	0.928923D-01	0.100158D+01	84.70	1.011784
86.0	0.627693D+00	0.787529D+00	51.44	1.014201
87.0	0.949643D+00	0.296193D+00	17.32	0.989553
88.0	0.943073D+00	-0.306958D+00	-17.96	0.983059
89.0	0.603138D+00	-0.803386D+00	-53.10	1.009205
90.0	0.434653D-01	-0.100891D+01	-87.53	1.019786

CIRCULAR OP POLARIZATION KA= 50.000

THETA	REAL	IMAG	PHASE	RCS
45.0	0.314493D-02	-0.142625D-02	-24.39	0.000012
46.0	0.343505D-02	-0.594711D-03	-9.82	0.000012
47.0	0.214074D-02	0.769938D-04	2.06	0.000005
48.0	-0.100638D-03	-0.318602D-03	-107.53	0.000000
49.0	-0.200014D-02	-0.183048D-02	-137.54	0.000007
50.0	-0.254235D-02	-0.349031D-02	-126.07	0.000019
51.0	-0.174304D-02	-0.394871D-02	-113.82	0.000019
52.0	-0.639531D-03	-0.248202D-02	-104.45	0.000007
53.0	-0.472618D-03	0.380002D-03	141.20	0.000000
54.0	-0.165092D-02	0.312245D-02	117.87	0.000012
55.0	-0.330620D-02	0.427225D-02	127.74	0.000029
56.0	-0.384828D-02	0.344908D-02	138.13	0.000027
57.0	-0.217499D-02	0.163381D-02	143.09	0.000007
58.0	0.135359D-02	0.401187D-03	16.51	0.000002
59.0	0.496232D-02	0.656941D-03	7.54	0.000025
60.0	0.658879D-02	0.185027D-02	15.69	0.000047
61.0	0.531952D-02	0.233338D-02	23.68	0.000034
62.0	0.206540D-02	0.683752D-03	18.31	0.000005
63.0	-0.107886D-02	-0.298119D-02	-109.89	0.000010
64.0	-0.237548D-02	-0.675840D-03	-109.37	0.000051
65.0	-0.172507D-02	-0.810720D-02	-102.01	0.000069
66.0	-0.681128D-03	-0.565471D-02	-96.67	0.000032
67.0	-0.110611D-02	-0.339195D-03	-162.95	0.000001
68.0	-0.346765D-02	0.503705D-02	124.54	0.000037
69.0	-0.614819D-02	0.763119D-02	128.86	0.000096
70.0	-0.645813D-02	0.647966D-03	174.90	0.000084
71.0	-0.274154D-02	0.307988D-02	131.67	0.000017
72.0	0.398391D-02	0.[illegible]61D-03	2.12	0.000016
73.0	0.102238D-01	-0.546352D-03	-3.06	0.000105
74.0	0.121272D-01	0.[illegible]137D-03	2.00	0.000147
75.0	0.814336D-02	0.671593D-03	4.71	0.000067
76.0	0.271398D-03	-0.182266D-02	-81.53	0.000003
77.0	-0.711272D-02	-0.658856D-02	-137.19	0.000094
78.0	-0.101440D-01	-0.703958D-01	-134.29	0.000211
79.0	-0.800915D-02	-0.[illegible]38D-02	-130.48	0.000152
80.0	-0.325587D-02	-0.216446D-02	-146.38	0.000015
81.0	0.388457D-03	0.[illegible]102D-02	87.35	0.000071
82.0	0.101483D-02	0.163677D-01	86.45	0.000269
83.0	-0.271722D-04	0.165033D-01	90.09	0.000272
84.0	0.492259D-03	0.790558D-02	86.44	0.000063
85.0	0.448537D-02	-0.493991D-02	-47.76	0.000045
86.0	0.101417D-01	-0.148289D-01	-55.63	0.000323
87.0	0.125645D-01	-0.164782D-01	-52.67	0.000429
88.0	0.782601D-02	-0.990216D-02	-53.13	0.000153
89.0	-0.492863D-02	-0.806407D-04	-179.06	0.000024
90.0	-0.182936D-01	0.684062D-02	159.50	0.000381

CIRCULAR PP POLARIZATION KA= 50.000

THETA	REAL	IMAG	PHASE	RCS
90.0	0.434653D-01	-0.100891D+01	-87.53	1.019786
91.0	-0.537706D+00	-0.838556D+00	-122.67	0.991304
92.0	-0.924854D+00	-0.349699D+00	-159.29	0.977644
93.0	-0.964961D+00	0.274362D+00	164.13	1.006423
94.0	-0.631058D+00	0.791719D+00	128.56	1.025053
95.0	-0.424997D-01	0.996487D+00	92.44	0.994793
96.0	0.571997D+00	0.803193D+00	54.54	0.972300
97.0	0.960648D+00	0.285539D+00	16.55	1.004377
98.0	0.953430D+00	-0.348589D+00	-20.08	1.030544
99.0	0.541376D+00	-0.838443D+00	-57.15	0.996075
100.0	-0.108509D+00	-0.977078D+00	-96.34	0.966456
101.0	-0.716676D+00	-0.700313D+00	-135.66	1.004063
102.0	-0.101115D+01	-0.119772D+00	-173.24	1.036774
103.0	-0.852800D+00	0.517472D+00	148.75	0.995045
104.0	-0.306313D+00	0.930542D+00	108.22	0.959737
105.0	0.381379D+00	0.928063D+00	67.66	1.006752
106.0	0.891036D+00	0.499962D+00	29.30	1.043906
107.0	0.980991D+00	-0.167079D+00	-9.67	0.990259
108.0	0.605604D+00	-0.765247D+00	-51.64	0.952358
109.0	-0.575474D-01	-0.100540D+01	-93.28	1.014137
110.0	-0.688968D+00	-0.759338D+00	-132.22	1.051271
111.0	-0.980814D+00	-0.133771D+00	-172.23	0.979891
112.0	-0.788851D+00	0.568711D+00	144.21	0.985718
113.0	-0.206979D+00	0.992654D+00	101.78	1.028203
114.0	0.475304D+00	0.911469D+00	62.46	1.056690
115.0	0.934693D+00	0.354215D+00	21.17	0.962131
116.0	0.886703D+00	-0.396112D+00	-24.07	0.943147
117.0	0.402642D+00	-0.942542D+00	-66.87	1.050505
118.0	-0.290698D+00	-0.985521D+00	-106.43	1.055757
119.0	-0.832981D+00	-0.492455D+00	-149.41	0.936369
120.0	-0.935848D+00	0.273314D+00	163.72	0.950512
121.0	-0.537846D+00	0.889506D+00	121.16	1.080500
122.0	0.154809D+00	0.100879D+01	81.28	1.041622
123.0	0.769807D+00	0.559331D+00	36.00	0.905454
124.0	0.966028D+00	-0.206488D+00	-12.07	0.975847
125.0	0.624094D+00	-0.850506D+00	-53.73	1.112854
126.0	-0.765093D-01	-0.100028D+01	-94.37	1.006405
127.0	-0.745288D+00	-0.568576D+00	-142.66	0.878733
128.0	-0.995100D+00	0.190913D+00	169.14	1.026671
129.0	-0.667802D+00	0.829848D+00	128.82	1.134606
130.0	0.608084D-01	0.970536D+00	86.41	0.945639
131.0	0.768453D+00	0.532661D+00	34.73	0.874249
132.0	0.102800D+01	-0.216881D+00	-11.91	1.103812
133.0	0.667326D+00	-0.824270D+00	-51.01	1.124785
134.0	-0.111514D+00	-0.924067D+00	-96.88	0.866334
135.0	-0.838614D+00	-0.461893D+00	-151.15	0.916619

CIRCULAR OP POLARIZATION KA= 50.000

THETA	REAL	IMAG	PHASE	RCS
90.0	-0.182936D-01	0.684062D-02	159.50	0.000381
91.0	-0.238777D-01	0.795668D-02	161.57	0.000633
92.0	-0.162773D-01	0.524730D-02	162.13	0.000292
93.0	0.199200D-02	0.320366D-02	58.13	0.000014
94.0	0.210187D-01	0.440744D-02	11.83	0.000461
95.0	0.293338D-01	0.679419D-02	13.04	0.000907
96.0	0.214150D-01	0.527843D-02	13.85	0.000486
97.0	0.165752D-02	-0.333994D-02	-63.61	0.000014
98.0	-0.182069D-01	-0.160288D-01	-138.64	0.000588
99.0	-0.267055D-01	-0.239587D-01	-138.10	0.001287
100.0	-0.200222D-01	-0.184137D-01	-137.40	0.000740
101.0	-0.399813D-02	0.165176D-02	157.55	0.000019
102.0	0.305888D-01	0.263914D-01	68.14	0.000809
103.0	0.158456D-01	0.397838D-01	68.28	0.001834
104.0	0.117761D-01	0.302016D-01	68.70	0.001051
105.0	0.481608D-02	-0.213871D-03	-2.54	0.000023
106.0	0.140151D-02	-0.346576D-01	-87.68	0.001203
107.0	0.209395D-02	-0.512193D-01	-87.66	0.002628
108.0	0.150112D-02	-0.373502D-01	-87.70	0.001397
109.0	-0.572092D-02	0.583759D-03	174.17	0.000033
110.0	-0.179026D-01	0.399641D-01	114.13	0.001918
111.0	-0.251695D-01	0.559744D-01	114.21	0.003767
112.0	-0.165269D-01	0.380131D-01	113.50	0.001718
113.0	0.943410D-02	-0.283606D-02	-16.73	0.000097
114.0	0.392107D-01	-0.408185D-01	-46.15	0.003204
115.0	0.507667D-01	-0.525195D-01	-45.97	0.005336
116.0	0.292434D-01	-0.322004D-01	-47.76	0.001892
117.0	-0.188586D-01	0.516527D-02	164.68	0.000382
118.0	-0.650740D-01	0.350363D-01	151.70	0.005462
119.0	-0.755556D-01	0.403336D-01	151.91	0.007335
120.0	-0.354702D-01	0.220144D-01	148.17	0.001743
121.0	0.361230D-01	-0.399701D-02	-6.31	0.001321
122.0	0.940538D-01	-0.202313D-01	-12.14	0.009255
123.0	0.955558D-01	-0.204336D-01	-12.07	0.009548
124.0	0.315895D-01	-0.117432D-01	-20.39	0.001136
125.0	-0.617901D-01	-0.545768D-02	174.95	0.003848
126.0	-0.123197D+00	-0.525805D-02	-177.56	0.015205
127.0	-0.106495D+00	-0.395968D-02	-177.87	0.011357
128.0	-0.152861D-01	0.772379D-02	153.19	0.000293
129.0	0.943335D-01	0.282415D-01	16.67	0.009695
130.0	0.148164D+00	0.411791D-01	15.53	0.023648
131.0	0.104502D+00	0.268398D-01	14.40	0.011641
132.0	-0.137431D-01	-0.178354D-01	-127.62	0.000507
133.0	-0.130009D+00	-0.683262D-01	-152.28	0.021571
134.0	-0.163840D+00	-0.841120D-01	-152.83	0.033918
135.0	-0.870320D-01	-0.391427D-01	-155.78	0.009107

CIRCULAR PT POLARIZATION KA= 50.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.838614D+00	-0.461893D+00	-151.15	0.916619
136.0	-0.105728D+01	0.273043D+00	165.52	1.192384
137.0	-0.613631D+00	0.826952D+00	126.58	1.060393
138.0	0.230287D+00	0.862078D+00	75.04	0.796211
139.0	0.945091D+00	0.364855D+00	21.11	1.026316
140.0	0.106468D+01	-0.348178D+00	-18.11	1.254779
141.0	0.493650D+00	-0.830296D+00	-59.27	0.933082
142.0	-0.413267D+00	-0.784756D+00	-117.77	0.786632
143.0	-0.106636D+01	-0.249065D+00	-166.85	1.199164
144.0	-0.102412D+01	0.432197D+00	157.12	1.235610
145.0	-0.295689D+00	0.827739D+00	109.66	0.772584
146.0	0.646770D+00	0.692701D+00	46.96	0.898146
147.0	0.117019D+01	0.121309D+00	5.92	1.386055
148.0	0.906598D+00	-0.516861D+00	-29.69	1.089065
149.0	0.160501D-01	-0.814822D+00	-88.87	0.664193
150.0	-0.903844D+00	-0.587564D+00	-146.97	1.162166
151.0	-0.121617D+01	0.125015D-01	179.41	1.479222
152.0	-0.687309D+00	0.596922D+00	139.05	0.828113
153.0	0.334631D+00	0.789725D+00	67.04	0.735643
154.0	0.114360D+01	0.472017D+00	22.43	1.530616
155.0	0.116160D+01	-0.147902D+00	-7.26	1.371200
156.0	0.353631D+00	-0.668278D+00	-62.11	0.571645
157.0	-0.727513D+00	-0.755431D+00	-134.00	1.096935
158.0	-0.131490D+01	-0.549217D+00	-165.13	1.850911
159.0	-0.970111D+00	0.282834D+00	163.75	1.021111
160.0	0.882506D-01	0.733761D+00	83.14	0.546193
161.0	0.111677D+01	0.709879D+00	32.44	1.751108
162.0	0.136499D+01	0.222077D+00	9.24	1.912510
163.0	0.620667D-00	-0.419092D+00	-34.03	0.560866
164.0	-0.612161D+00	-0.799844D+00	-127.43	1.010092
165.0	-0.144874D+01	-0.667085D+00	-155.28	2.543861
166.0	-0.125237D+01	-0.929072D-01	-175.76	1.577051
167.0	-0.112436D+00	0.565056D+00	101.25	0.331930
168.0	0.118309D+01	0.884381D+00	36.78	2.121828
169.0	0.168506D+01	0.643332D+00	20.90	3.253297
170.0	0.965104D+00	-0.338231D-01	-2.01	0.932570
171.0	-0.543297D+00	-0.742971D+00	-126.18	0.647178
172.0	-0.160454D+01	-0.103925D+01	-150.06	4.336414
173.0	-0.187987D+01	-0.704445D+00	-159.46	4.030159
174.0	-0.584395D+00	0.119612D+00	168.43	0.355824
175.0	0.136369D+01	0.101258D+01	36.60	2.884955
176.0	0.281851D+01	0.152306D+01	28.39	10.263724
177.0	0.298333D+01	0.143284D+01	25.65	10.953314
178.0	0.194693D+01	0.879269D+00	24.30	4.563660
179.0	0.601754D+00	0.263292D+00	23.63	0.431431
180.0	0.205921D-08	0.350669D-08	59.58	0.000000

CIRCULAR OP POLARIZATION KA= 50.000

THETA	REAL	IMAG	PHASE	NRCS
135.0	-0.870320D-01	-0.391827D-01	-155.78	0.009107
136.0	0.532842D-01	0.505[illegible]D-01	43.88	0.005392
137.0	0.163231D+00	0.127[illegible]D+00	37.89	0.042776
138.0	0.165385D+00	0.126[illegible]D+00	37.38	0.043319
139.0	0.538058D-01	0.289[illegible]D-01	28.30	0.003734
140.0	-0.985260D-01	-0.113320D+00	-131.01	0.022549
141.0	-0.887488D+00	-0.201170D+00	-132.98	0.075620
142.0	-0.149500D+00	-0.155168D+00	-133.93	0.046426
143.0	-0.747061D-02	0.176416D-01	112.95	0.000367
144.0	0.142577D+00	0.210971D+00	55.95	0.064837
145.0	0.196699D+00	0.281512D+00	55.06	0.117940
146.0	0.115634D+00	0.152266D+00	52.79	0.036556
147.0	-0.463194D-01	-0.115865D+00	-111.86	0.015478
148.0	-0.177637D+00	-0.343255D+00	-117.36	0.149379
149.0	-0.186024D+00	-0.350819D+00	-118.04	0.157977
150.0	-0.667481D-01	-0.936690D-01	-125.47	0.013229
151.0	0.995999D-01	0.278669D+00	70.33	0.087576
152.0	0.196688D+00	0.502623D+00	68.63	0.291314
153.0	0.157222D+00	0.381822D+00	67.62	0.170507
154.0	0.929335D-02	-0.512182D-01	-79.72	0.002710
155.0	-0.143592D+00	-0.519806D+00	-105.44	0.290817
156.0	-0.195338D+00	-0.671357D+00	-106.22	0.488878
157.0	-0.111446D+00	-0.333237D+00	-108.49	0.123467
158.0	0.477765D-01	0.323048D+00	81.59	0.106642
159.0	0.170766D+00	0.850324D+00	78.64	0.752211
160.0	0.173425D+00	0.816760D+00	78.01	0.697172
161.0	0.570279D-01	0.139410D+00	67.75	0.022687
162.0	-0.949180D-01	-0.[illegible]D+00	-96.90	0.024171
163.0	-0.177036D+00	-0.128507D+01	-97.84	1.682751
164.0	-0.135745D+00	-0.[illegible]D+00	-98.78	0.790563
165.0	-0.415909D-02	0.321876D+00	90.74	0.103622
166.0	0.124875D+00	0.155883D+01	85.43	2.445451
167.0	0.163575D+00	0.[illegible]D+01	84.97	3.481579
168.0	0.918[illegible]D-01	0.726106D+00	82.79	0.535659
169.0	-0.365320D-01	-0.134926D+01	-91.55	1.821902
170.0	-0.133373D+00	-0.298637D+01	-92.56	8.939203
171.0	-0.138118D+00	-0.269292D+01	-92.98	7.270882
172.0	-0.549088D-01	0.500880D-01	137.67	0.005533
173.0	0.565421D-01	0.404351D+01	89.20	16.353138
174.0	0.126250D+00	0.655039D+01	88.90	42.923586
175.0	0.117895D+00	0.448535D+01	88.49	20.132392
176.0	0.441987D-01	-0.389714D+01	-89.35	15.189669
177.0	-0.523741D-01	-0.177105D+02	-90.17	313.665688
178.0	-0.132286D+00	-0.333285D+02	-90.23	1110.808195
179.0	-0.178593D+00	-0.456737D+02	-90.22	2086.121744
180.0	-0.192873D+00	-0.503635D+02	-90.22	2536.519119

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE *(When Data Entered)*

REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

1. REPORT NUMBER: ESD-TR-76-217	2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER	
4. TITLE *(and Subtitle)*: Circular Polarization Scattering Coefficients for the Bistatic Scattering of Electromagnetic Waves from Perfectly Conducting Spheres.	5. TYPE OF REPORT & PERIOD COVERED: Technical Note
	6. PERFORMING ORG. REPORT NUMBER: Technical Note 1976-34
7. AUTHOR(s): R. Alexander Ross, Gary N. Cohen	8. CONTRACT OR GRANT NUMBER(s): F19628-76-C-0002
9. PERFORMING ORGANIZATION NAME AND ADDRESS: Lincoln Laboratory, M.I.T. P.O. Box 73 Lexington, MA 02173	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: Program Element No. 63311F Project No. 627A
11. CONTROLLING OFFICE NAME AND ADDRESS: Air Force Systems Command, USAF Andrews AFB Washington, DC 20331	12. REPORT DATE: 27 July 1976 13. NUMBER OF PAGES: 108
14. MONITORING AGENCY NAME & ADDRESS *(if different from Controlling Office)*: Electronic Systems Division Hanscom AFB Bedford, MA 01731	15. SECURITY CLASS. *(of this report)*: Unclassified 15a. DECLASSIFICATION DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT *(of this Report)*

Approved for public release; distribution unlimited.

TN-1976-34

AF-627A

17. DISTRIBUTION STATEMENT *(of the abstract entered in Block 20, if different from Report)*

18. SUPPLEMENTARY NOTES

None

19. KEY WORDS *(Continue on reverse side if necessary and identify by block number)*

bistatic scattering
electromagnetic waves
conducting spheres
radar cross section

20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

The scattering by a number of perfectly conducting spheres has been calculated as a function of bistatic angle for both principal circular polarizations. Normalized radar cross section and scattering phase are tabulated for body circumference in wavelengths equal to 1.0(1.0)10.0, 15.0(5.0)50.0 with bistatic angles 0.0(1.0)180.0 degrees. Selected graphs precede the tables.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE *(When Data Entered)*

AD-E [illegible]